CR-IR348CL Service Manual

IN-B: Installation – Connection to Two or More RUs, 5000 plus and CR-IR356/357/362/363/364/366/367/368

WARNING

This manual is written for International distribution (including distribution in the U.S.) and therefore may contain references to mammography related options.
Mammography functionality for this product is not commercially available in the US, pending FDA Approval.
This functionality must not be activated on US models, the only breast related functionality available in the U.S. is the Specimen Imaging Application.

Control Sheet

Issue date	Revision number	Reason	Pages affected
05/30/2001	02	New release (FM3027)	All pages
08/30/2001	03	Revision for software version A04 (FM3125)	I, II, 1–6, 9–17, 19, 20, 23–28, 31–50
08/30/2001	03	Changes in pagination (FM3125)	18
03/20/2002	04	Revision for software version A07 (FM3297)	I–IV, 5, 12, 13, 16, 19, 20, 23, 26–28, 32–34, 38, 40–48
07/20/2002	05	Revision for software version A08 (FM3428)	I, II, 4, 6, 7, 9, 10, 12, 14, 15, 17–21, 23, 24, 40
07/20/2002	05	Changes in pagination (FM3428)	11, 13, 16, 22, 25–39, 41–46
11/30/2002	06	Revision for software version A09 (FM3499)	I–IV, 5, 13, 18, 19, 21, 22, 25, 26, 28, 38, 48
11/30/2002	06	Changes in pagination (FM3499)	20, 23, 24, 27, 29-37, 39–47
03/01/2003	07	Revision for software version A10 (FM3634)	I, II, 3, 5–7, 17–19, 22–26, 29–33, 35, 36, 45, 46
08/20/2003	08	Revision for software version A11 (FM4009)	I, II, 1–10, 12–16, 19, 20, 22–58
08/20/2003	08	Changes in pagination (FM4009)	11, 17, 18, 21
12/10/2003	09	Revision for software version B00 (FM4158)	I, II, 2, 3, 5, 6, 13, 16, 18, 19, 23, 24, 27, 37
12/10/2003	09	Changes in pagination (FM4158)	38–40
02/20/2004	10	A new production tool adopted and layout design changed (FM4220)	All pages
07/30/2004	11	Revision for software V2.0(B) (FM4254)	I, II, 4, 5, 14–16, 19–21, 27–29
07/30/2004	11	Changes in pagination (FM4254)	6, 30–58
07/30/2005	14	Revision for software V3.0(B) (FM4543)	I, II, 2, 14, 16, 20, 21, 29, 36, 42, 50, 51, 55, 57
11/30/2005	15	Revision for software V3.1(B) (FM4760)	I, II, 1–7, 9, 10, 12–16, 19–30, 41, 48, 51–58

1. CL Installation Conditions

☞ **For the PC (controller: DELL Optiplex GX150) installation conditions required, see "1. CL Installation Conditions" under "IN-A: Installation - One RU Connection".**

- Dimensions and weight
- Temperature and humidity
- Environmental conditions
- Power supply conditions

◆ *NOTE* ◆

Listed below are the abbreviations adopted in this chapter.

- *Application : AP*
- *Local printer : LP*
- *CR-IR346CL : CL*
- *CR-IR346RU : RU*
- *5000 plus : IR (5000plus series)*
- *CR-IR356/357 : 356/357*
- *CR-IR36X : 362/363/364/366/367/368*
- *CR-IR364/366/367 : 364/366/367*
- *CL configuration data : CL-Config*

2. Installation Workflow

Presented below is the procedure used for installing the CL-AP.
Follow the flowchart to install the CL-AP.

◆ *NOTE* ◆

To facilitate you to understand installation workflow in this edition, the following icons are shown to the right of the title in each chapter.

- RU : *XG-1 RU*
- 5000P : *5000plus (FCR5000, etc.)*
- 356/357 : *CR-IR356/CR-IR357*
- 36X : *CR-IR362/CR-IR363/CR-IR364/CR-IR366/CR-IR367/CR-IR368*
- 364 : *CR-IR364*
- 366 : *CR-IR366*
- 367 : *CR-IR367*

➤ *IMPORTANT*

- *Have on hand a CD-ROM that stores the CL's AP key (114Y5342002A), which is distributed for use in servicing.*
- *Be sure to use the AP key of version A00 or later.*

■ Installation workflow

3. CL Hardware Setup	
3.1 Unloading and Unpacking	RU 5000P 356/357 36X
3.2 Checking the Component Items	RU 5000P 356/357 36X
3.3 Installing the Accessories and Optional Items	RU 5000P 356/357 36X
3.4 Making a Cable Connection to Other Equipment	RU 5000P 356/357 36X
3.5 Making a Cable Connection to the LP	RU 5000P 356/357 36X
3.6 Mounting the Ferrite Core	356/357 36X
4. CL Software Setup	
4.1 CL-AP Startup	RU 5000P 356/357 36X
4.2 Setup for the CL with the Service Utility	RU 5000P 356/357 36X
4.3 Configuration Settings for LP Connection	RU 5000P 356/357 36X
4.4 CL Settings for Connection to Other Equipment	RU 5000P 356/357 36X
4.5 Barcode Reader/Magnetic Card Reader Connection	RU 5000P 356/357 36X
4.6 Configuration Settings for IR (5000 plus series) Connection	5000P
4.7 Setup for RU (XG-1 RU) Connection	RU
4.8 Setup for CR-IR356/357/36X Connection	356/357 36X

3. CL Hardware Setup

3.1 Unloading and Unpacking — RU 5000P 356/357 36X
3.2 Checking the Component Items — RU 5000P 356/357 36X
3.3 Installing the Accessories and Optional Items — RU 5000P 356/357 36X
3.4 Making a Cable Connection to Other Equipment — RU 5000P 356/357 36X
3.5 Making a Cable Connection to the LP — RU 5000P 356/357 36X
3.6 Mounting the Ferrite Core — 356/357 36X

3.1 Unloading and Unpacking

RU 5000P 356/357 36X

Remove the following items from the packing box.

- PC (controller)
- Monitor
- Insulating transformer (only for units used in Japan)
- Others (options, etc.)

◆◆ *CAUTIONS* ◆◆

When unloading, transferring, and unpacking the machine, observe the following precautions:

- ***Do not subject the machine to vibration or shock.***
  If the machine is unduly vibrated or shocked while it is unloaded or transferred, it may become damaged or defective.
- ***Avoid moisture condensation inside the machine.***
  If the machine is subjected to a drastic temperature change when it is transferred or unpacked, moisture condensation may occur inside the machine. If you turn ON the machine while moisture is condensed on its inner surface, the machine may become defective. To avoid such a problem, be sure to allow the machine to stand at a room temperature for a period of 1 hour or longer and then turn ON the power.

3.2 Checking the Component Items

RU 5000P 356/357 36X

Check that the following component items are fully supplied.

■ PC box

(Product code : IR 348 CL A * · B **)

- PC
- Keyboard
- Mouse
- Power cable
- CL-AP (CD-ROM)
- Standard Key Software (One or two CD-ROMs)

☞ For details of the component items, see the documentation supplied with the PC.

■ Monitor box

(Product code : IR 346 DISPLAY LCD (15" monitor with the touch panel) or CL DISPLAY CRT 17 IN A (17" CRT monitor))

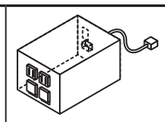
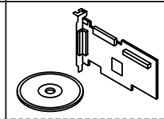
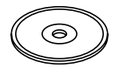
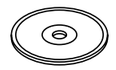
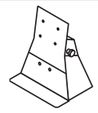
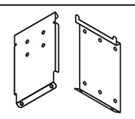
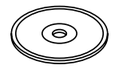
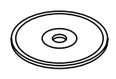
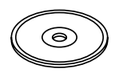
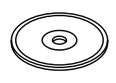
- Monitor
- Monitor cable
- Serial cable (only for the 15" monitor with the touch panel)
- Touch panel driver CD or FD (only for the 15" monitor with the touch panel)
- Power cable

☞ For details on the component items, see the documentation supplied with the monitor.

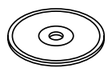
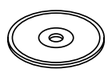
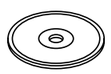
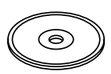
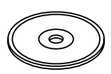
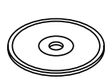
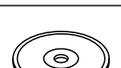
☞ When a Super Resolution LCD Monitor SL-IC300 or an Ikegami 1k landscape monitor is used, see the respective manual to check the component items.

☞ When an LCD Monitor SL-IC200 is used, see the Service Manual to check the component items.

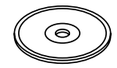
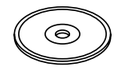
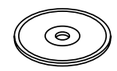
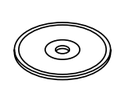
■ Others (separately packed items, options, etc.)

Description		Product Code	Qty.	Remarks*
CL insulation power box kit (only for units used in Japan)		IR 346 INSULATION BOX	1	
Local print key CD E-i/f board (PEI01A)		IR 346 LOCAL PRINT	1 each	V, O
DICOM print key CD		IR 346 DICOM PRINT	1	V, O
FINP input/output key CD		IR 346 DMS NET-WORK IN-OUT	1	V, O
DICOM CR STORAGE (standard/private) key CD		IR 346 DICOM CR STORAGE	1	V, O
LCD display stand		IR 346 LCD STAND	1	O
LCD display wall-mounting bracket		IR 346 LCD BRACKET	1	O
MFP key CD		IR 346 MFP	1	O
Detail QA key CD		IR 346 DELUX-QA	1	O
Processed-image output key CD		IR 346 DICOM IM PROCESSED	1	O
Patient information online key CD		IR 346 ID ONLINE	1	O

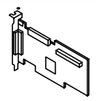
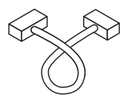
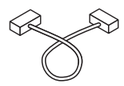
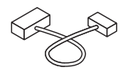
* V: Variation; O: Option

Description		Product Code	Qty.	Remarks*
DICOM worklist (MWM) key CD		CL DICOM ORDER MWM	1	O
DICOM worklist (MWM) key CD (patient information only)		CL DICOM ID MWM	1	O
DICOM PPS key CD		CL DICOM MPPS	1	O
DICOM Commitment Push key CD		CL DICOM COMMITMENT	1	O
Shadow-masking CD key		CL SHUTTER-PROC	1	O
Energy subtraction processing key CD		CL ES	1	O
Ordering key CD (serial connection)		CL ORDER ONLINE	1	O
Ordering key CD (F-RIS)		CL ORDER ONLINE FOR TST	1	O
PEM image processing key CD		CL PEM	1	O
X-CON control key		CL X ONLINE	1	O
Image composition key CD		CL IM COMPOSITION	1	O
QA batch processing key CD		CL TILE-IM QA FOR PLUS	1	O

* O : Option

Description		Product Code	Qty.	Remarks*
Digital Mammography key CD (image processing parameters not provided.)		CL DICOM MAMMO S	1	O
Digital Mammography key CD (image processing parameters provided.)		CL DICOM MAMMO P	1	O
Image magnification key CD (for Lite Standard key)		CL IM-MAGNIFY FOR LITE	1	O
LUT adjustment key CD for connection to other competing PACs (for Lite Standard key)		CL LUT-ADJUSTMENT FOR LITE	1	O
Annotation key CD		CL ANNOTATION FOR LITE	1	O
Grid Pattern Removal processing key CD		CL GPR	1	O
Image Reader QC function key CD		FCR QC TEST SOFT	1	O
DICOM Media Storage key CD		CL DICOM DVD STORAGE	1	O
DICOM image query/ retrieval key CD		CL DICOM QR	1	O
RETAKE ANALYSIS key CD		CL RETAKE ANALYSIS	1	O
POCKET id Consle key CD (Applicable only in Japan)		CL SOFT FOR POCKET ID CL	1	O
Barcode reader (with a rack)		IR 346 BARCODE	1	O

* O : Option

Description		Product Code	Qty.	Remarks*2
Magnetic card reader (including a Ferrite core)		IR 346 MCR JIS F	1	O
Magnetic card reader (ISO)		IR 346 MCR ISO	1	O
Magnetic card reader (ISO, including a Ferrite core)		IR 346 MCR ISO F	1	O
Magnetic card reader wall-mounting kit		IR 346 MCR BRACKET	1	O
Serial interface board (PSI04A)		IDT-4 IF BD FOR PCI	1	O
Cable for direct printer connection		ODF/PS IF CABLE nM*1	1	O
RS232C cable for connection to other manufacturer's RIS terminal or X-ray apparatus		IDT3/4 ONLINE 9S-CBL nM*1 IDT3/4 ONLINE 25P-CBL nM*1	1	O
E-i/f conversion cable (1.2 m)		MF-PS 667/DMSIF CBL	1	O
Ferrite core kit (one smalll core)		IR 346 FERRITE KIT	1	O

*1 n : Cable length

*2 O : Option

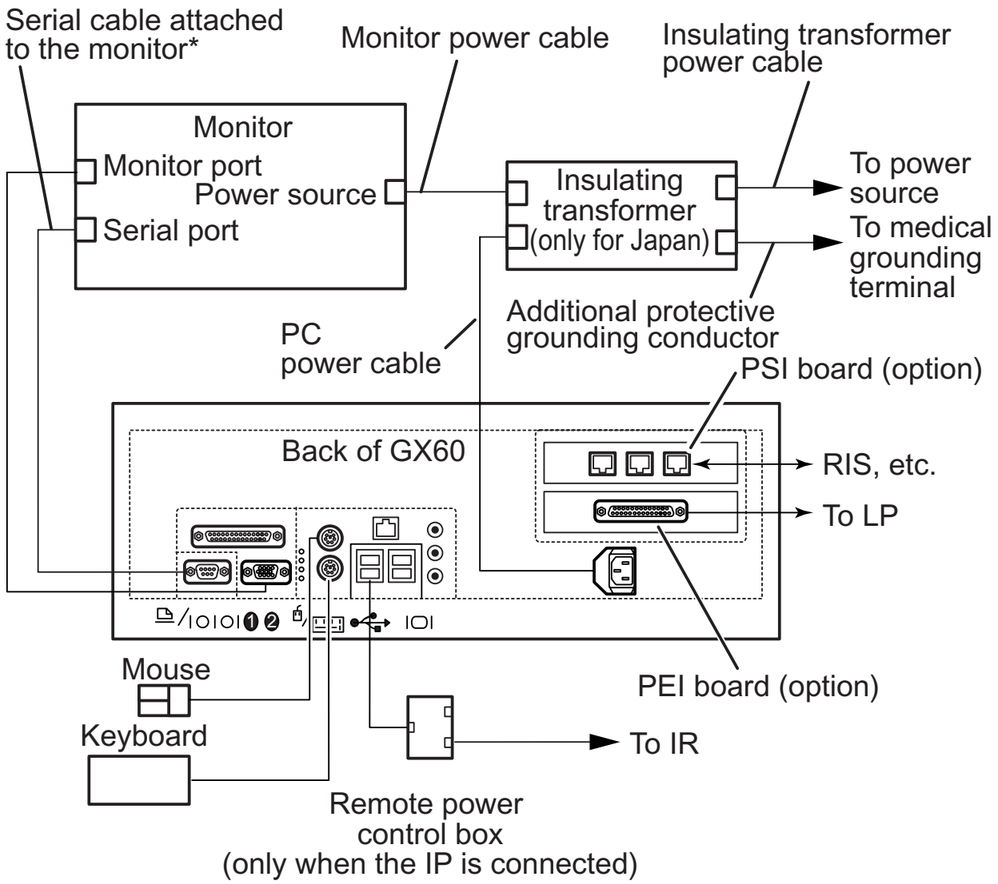
3.3 Installing the Accessories and Optional Items

Connect the following accessories and optional items to the PC, as illustrated below.

- PC boards (option)
- Insulating transformer (only for units used in Japan)
- Keyboard and mouse
- Monitor
- Remote power control box (only when the 5000 plus series is connected)

Follow the workflow presented below.

3.3.1 PC Boards	RU 5000P 356/357 36X
3.3.2 Insulating Transformer (procedures required only for units used in Japan)	RU 5000P 356/357 36X
3.3.3 Keyboard, Mouse, and Power Cable	RU 5000P 356/357 36X
3.3.4 Monitor	RU 5000P 356/357 36X
3.3.5 Remote Power Control Box	5000P



* Only when the 15" monitor with the touch panel is used.

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◆ ***NOTE*** ◆

Of the two serial ports provided on the PC, be sure to use the No.1 serial port (❶).

3.3.1 PC Boards

RU 5000P 356/357 36X

To attach optional boards, observe the procedures described herein.

- PEI board (optional)
- PSI board (optional)

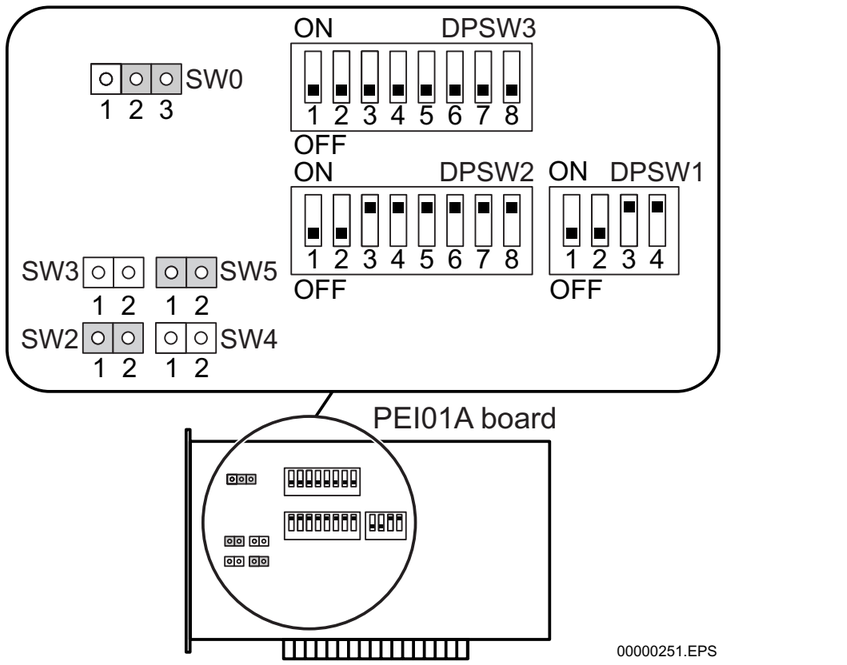
☞ **For how to verify setup of and attach the PSI board, see "1. Hardware Setup", under "CL+RIS/IDC4 (ID Online)" in "OE7: Connection between CL and Other Equipment".**

1. **Check that the switches on the PEI board are properly set. If their settings are incorrect, correct them accordingly.**

◆ ***NOTE*** ◆

When no remote signal is to be sent to the printer, turn OFF all the DPSW1 switches.

- When connecting the CR-LP414N/FL-IM2636N or FL-IM3543N/ FL-IM3543MN
  - DPSW1 1 and 2: OFF; 3 and 4: ON
  - DPSW2 1 and 2: OFF; 3 to 8: ON
  - DPSW3 1 to 8: OFF
  - SW0 2 and 3 short-circuited.
  - SW2 and SW5 1 and 2 short-circuited.
  - SW3 and SW4 Jumpers removed.



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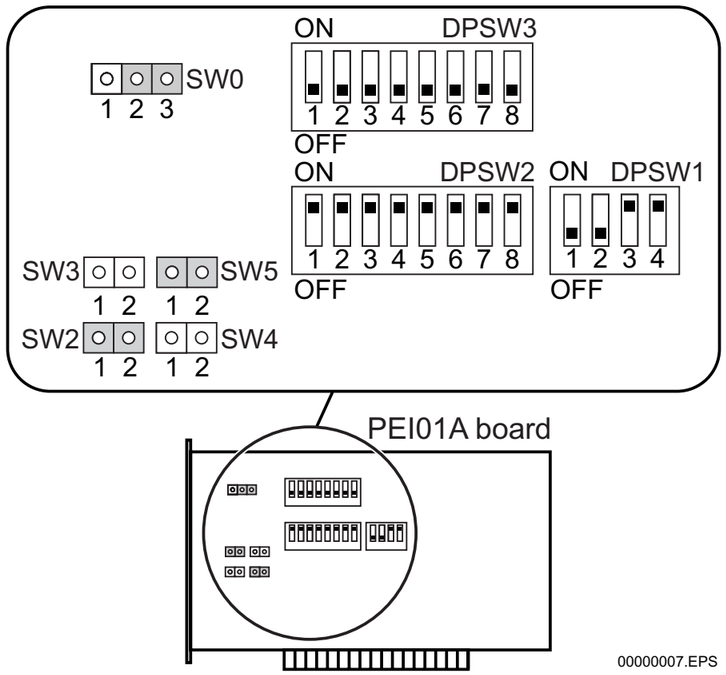
- When connecting printers other than those mentioned on the left side
  - DPSW1 1 and 2: OFF; 3 and 4: ON
  - DPSW2 1 to 8: ON
  - DPSW3 1 to 8: OFF
  - SW0 2 and 3 short-circuited.
  - SW2 and SW5 1 and 2 short-circuited.
  - SW3 and SW4 Jumpers removed.



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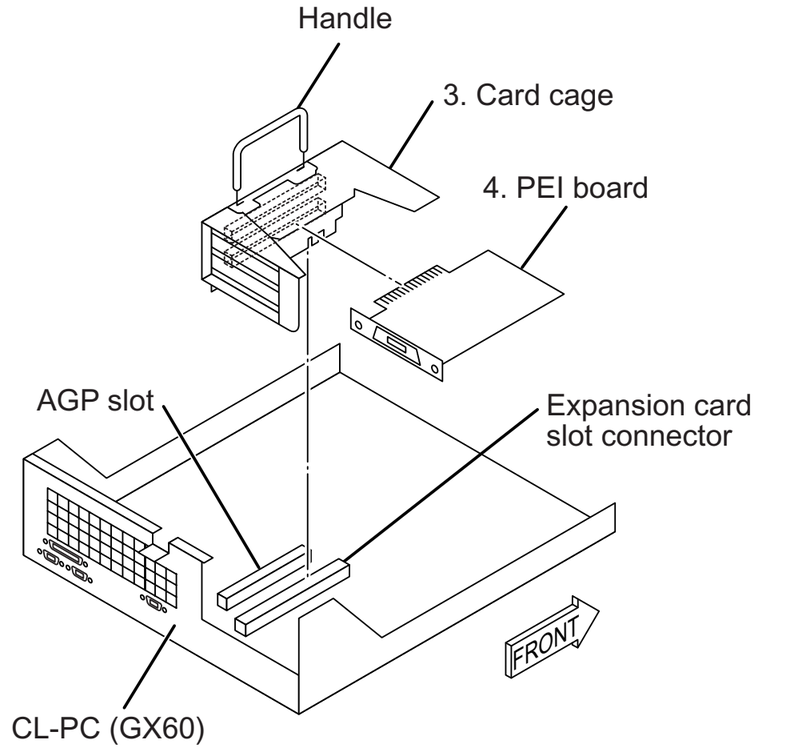
2. Mount a PEI board in a PCI slot.

◆ *NOTE* ◆

The procedure below applies when the PC used is GX60.

☞ **When the PC used is a model other than GX60, see "Appendix C Removing/Reinstalling the Board (PEI/PSI)" under "RI : Reinstalling the Software".**

I. Open the CL-PC cover.
II. Holding the card cage handle, remove the card cage.
III. Mount a PEI board in the lower PCI slot.



IN000009.EPS

IV. Mount the card cage on the CL-PC.
V. Close the CL-PC cover.

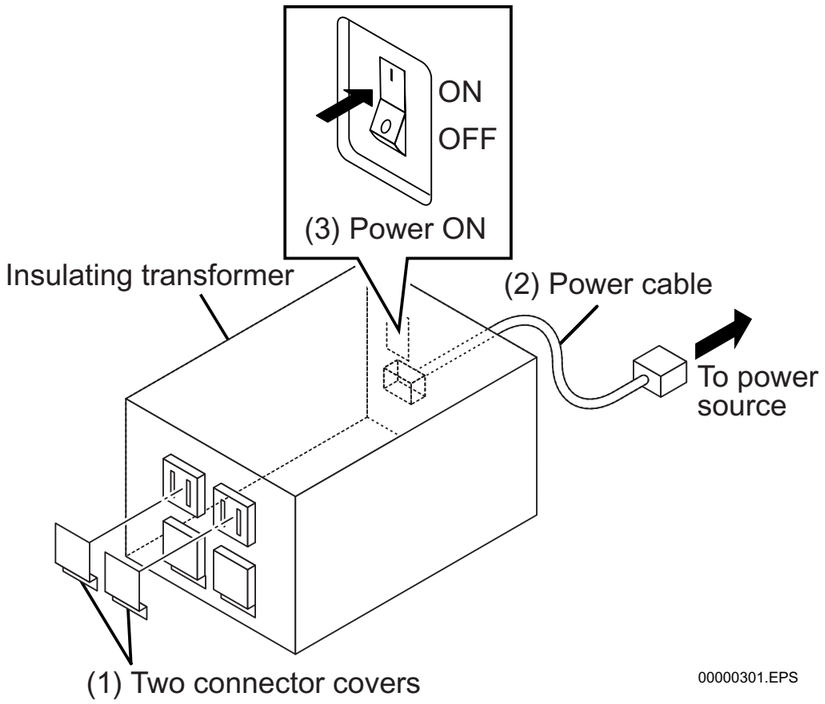
3.3.2 Insulating Transformer (procedures required only for units used in Japan)

RU 5000P 356/357 36X

◆ *NOTE* ◆

Ensure that the power cables connected to the insulating transformer are for the CL and monitor only.

1. **Remove the two connector covers from the insulating transformer.**
2. **Connect the power cable between the insulating transformer and power source.**
3. **Turn ON the insulating transformer.**



3.3.3 Keyboard, Mouse, and Power Cable

RU 5000P 356/357 36X

● Procedures followed by equipment used abroad

1. **Connect the keyboard, mouse, and power cable to the PC.**
   ☞ **For details on the connection procedures, see the documentation supplied with the PC.**

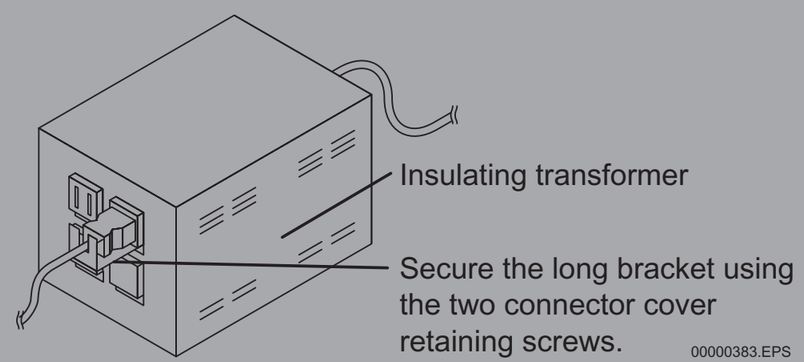
◆◆ *CAUTION* ◆◆

For a PC provided with the source voltage changeover switch (between 115 and 230 VAC), set the PC source voltage according to the voltage supplied to the institution concerned and then connect the power cable to the power source.

2. **Connect the power cable to the power source.**

● Procedures followed by equipment used in Japan

1. **Connect the keyboard, mouse, and power cable to the PC.**
   ☞ **For details on the connection procedures, see the documentation supplied with the PC.**
2. **Connect the power cable to the insulating transformer.**
3. **Use the long bracket to secure that the power cable is not disconnected accidentally from the insulating transformer.**



➥ *REFERENCE*

To secure cables, eight brackets (four each of long and short ones) are attached to the insulating transformer.

3.3.4 Monitor

RU 5000P 356/357 36X

The following monitors can be connected.
Note that the connection procedure varies with the monitor type.

- 15" monitor with the touch panel
- 17" CRT monitor
- Ikegami 1K landscape monitor
- Super Resolution LCD Monitor SL-IC300

☞ **For the connection procedure of the Super Resolution LCD Monitor SL-IC300, see the SL-IC300 Service Manual.**

- LCD Monitor SL-IC200

☞ **For the connection procedure of the LCD Monitor SL-IC200, see the SL-IC200 Service Manual.**

■ For the 15" monitor with the touch panel

The work procedures will differ depending on the installation method adopted of the monitor.

➥ ***REFERENCE***

If the monitor type used is EIZO's L350/351P-TS, it is stable enough even without optional rack for actual operations. Thus, it is not necessary now for you to mount optional rack.

❍ Installation method 1

To continue to use the monitor rack, perform step 1. thereafter.

❍ Installation method 2

To replace the monitor with a wall-mounting type monitor, replace first the bracket with a wall-mounting type (option). Perform then step 1. thereafter.

☞ **When using the wall-mounting bracket, see "Appendix 7 Attaching the Monitor Wall-Mounting Bracket [Option]" to replace the monitor rack.**

1. Connect the monitor cable and serial cable to the PC.

☞ **For details on cable connections, see the documentation supplied with the monitor.**

● Procedures followed by equipment used abroad

◆ ***NOTE*** ◆

Prior to connection of the power cable, connect the serial cable between PC and monitor.
If the power cable is connected before serial cable connection, the touch panel driver may not be installed.

2. Connect the power cable between the monitor and power source.

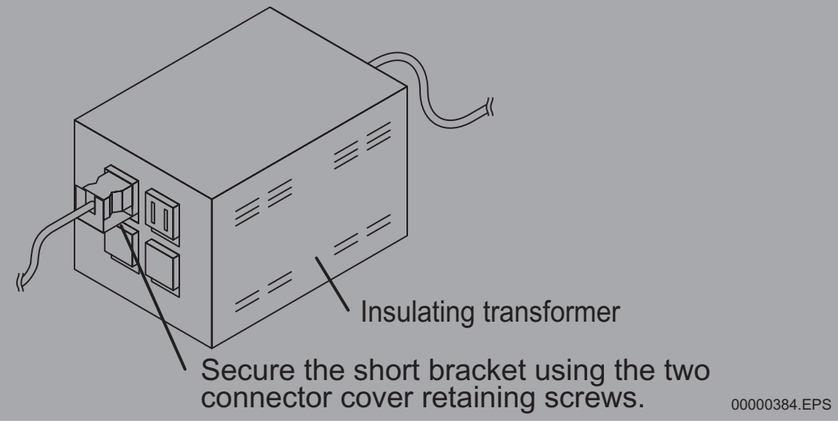
● Procedures followed by equipment used in Japan

◆ ***NOTE*** ◆

Prior to connection of the power cable, connect the serial cable between PC and monitor.
If the power cable is connected before serial cable connection, the touch panel driver may not be installed.

2. Connect the monitor power cable to the insulating transformer.

3. Use the short bracket to secure that the power cable is not disconnected accidentally from the insulating transformer.



■ For the 17" CRT monitor

1. Connect the monitor cable between the PC and monitor.

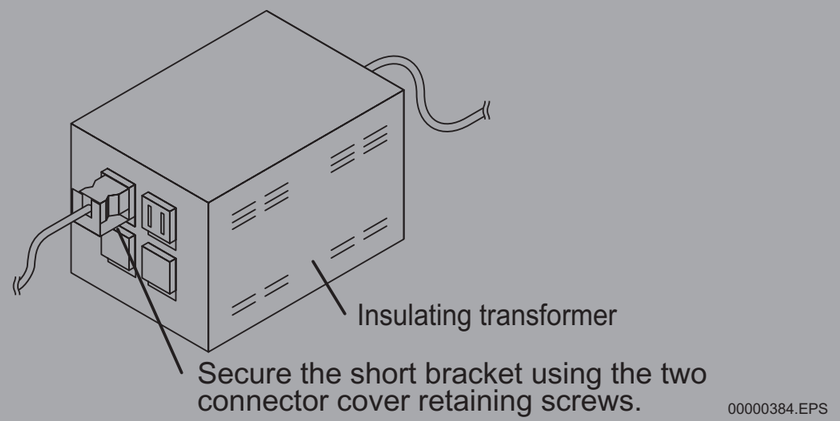
● Procedures followed by equipment used abroad

2. Connect the power cable between the monitor and power source.

● Procedures followed by equipment used in Japan

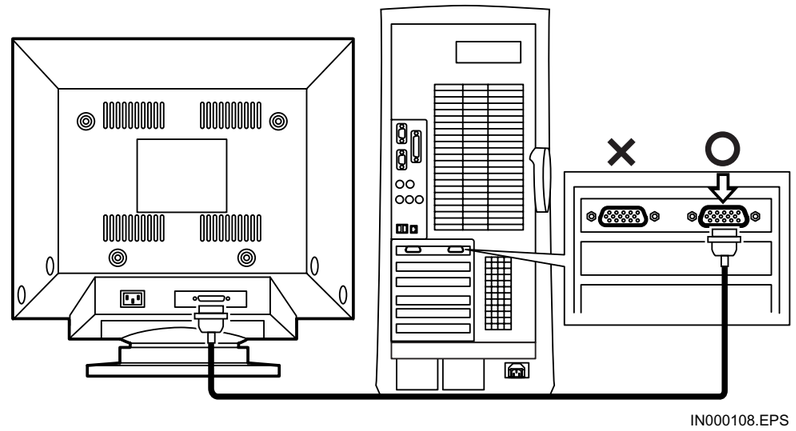
2. Connect the power cable between the PC and insulating transformer.

3. Use the short bracket to secure that the power cable is not disconnected accidentally from the insulating transformer.



■ For the Ikegami 1k landscape monitor

1. Use a monitor cable to connect the monitor to the PC.



● Procedure followed by equipment used abroad

2. Use a power cable to connect the power source to the monitor.

3.3.5 Remote Power Control Box

5000P

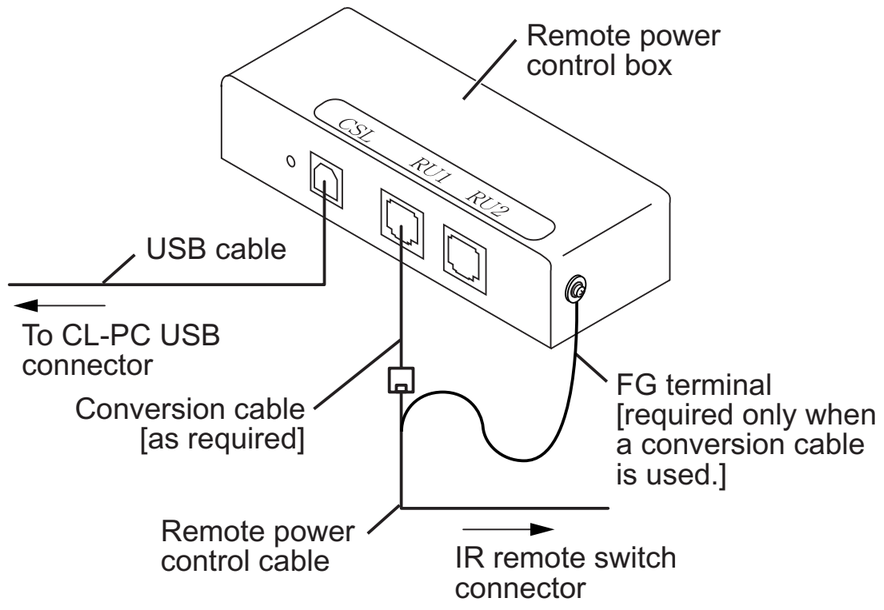
1. Use a USB cable to connect the CL to the remote power control box.

2. Use an optional remote power control cable to connect the remote power control box to the IR.

◆ ***NOTE*** ◆

To use the following remote power control cable for the master IDT741, a conversion cable is required.

- *IDT-IV-to-FCR5000 connect signal cable REM CBL *M FOR IDT MAIN D*



IN000014.EPS

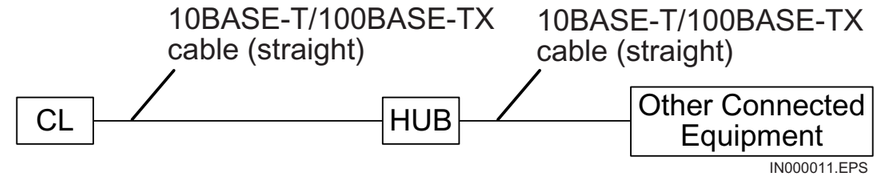
3. To connect another IR, use an RU2 connector.

3.4 Making a Cable Connection to Other Equipment

RU 5000P 356/357 36X

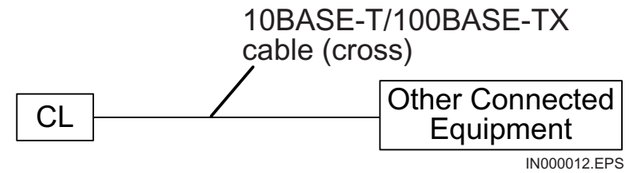
Use a network cable to connect the CL to other equipment.
When using a HUB, use a straight cable, and when directly connecting the CL to the IR without HUB, use a cross cable.

- For connection using a straight cable



IN000011.EPS

- For connection using a cross cable



IN000012.EPS

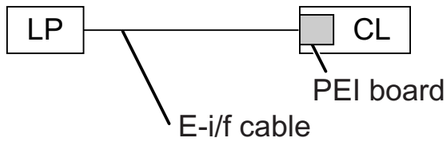
◆ ***NOTES*** ◆

- *Be sure to use an STP shield-type cable for connection to the IR.*
- *Even if the CL and IR will eventually be incorporated into the network of a hospital for operation, connect the CL and IR while they are independent of the network (not incorporated into the hospital's network).*
- *Do not connect the telephone line to the CL and IR network connectors.*
- *The IEC950/UL1950-conformed cable is available for this equipment.*

3.5 Making a Cable Connection to the LP

RU 5000P 356/357 36X

When using an E-i/f LP, connect an E-i/f cable between the LP and CL.

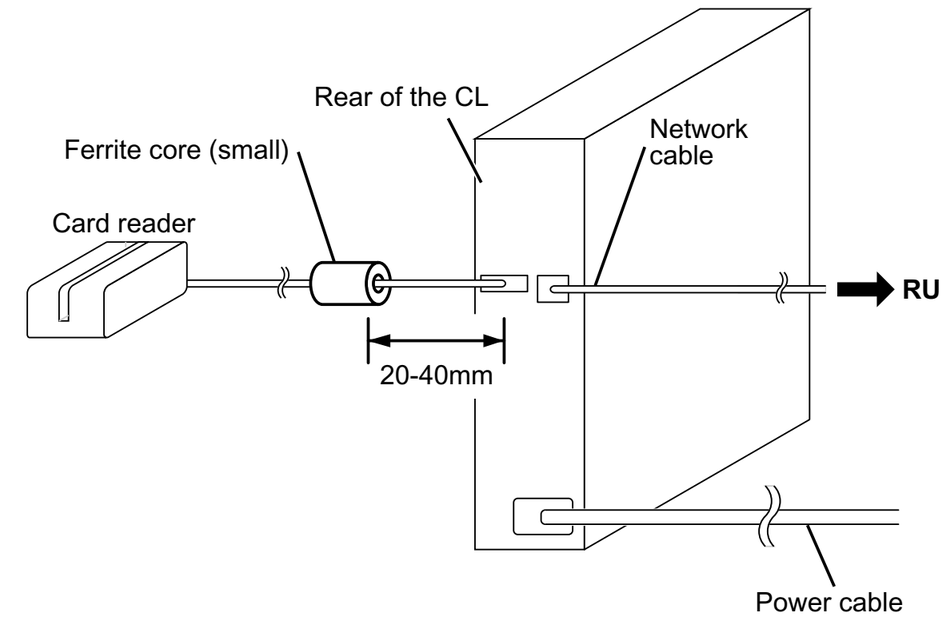


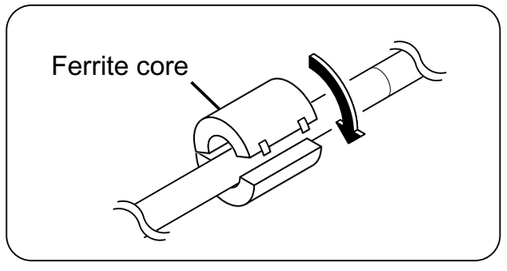
00000035.EPS

3.6 Mounting the Ferrite Core

356/357 36X

When a magnetic card reader is connected to the CL, mount a Ferrite core on the USB cable.





00000036.EPS

4. CL Software Setup

- 4.1 CL-AP Startup — RU 5000P 356/357 36X
- 4.2 Setup for the CL with the Service Utility — RU 5000P 356/357 36X
- 4.3 Configuration Settings for LP connection — RU 5000P 356/357 36X
- 4.4 CL Settings for Connection to Other Equipment — RU 5000P 356/357 36X
- 4.5 Barcode Reader/Magnetic Card Reader Connection — RU 5000P 356/357 36X
- 4.6 Configuration Settings for IR (5000 plus series) Connection — 5000P
- 4.7 Setup for RU (XG-1 RU) Connection — RU
- 4.8 Setup for CR-IR356/357/36X Connection — 356/357 36X

4.1 CL-AP Startup

Start up the CL-AP following the workflow below:

- 4.1.1 OS Startup — RU 5000P 356/357 36X
- 4.1.2 OS Setups — RU 5000P 356/357 36X
- 4.1.3 Touch Panel Driver Installation — RU 5000P 356/357 36X
- 4.1.4 Procedure for Avoiding a Password Input Prompt When Exiting the Suspend Mode — RU 5000P 356/357 36X
- 4.1.5 Option Key Installation — RU 5000P 356/357 36X
- 4.1.6 AP Key Installation — RU 5000P 356/357 36X
- 4.1.7 CL Startup Verification — RU 5000P 356/357 36X

◆ NOTE ◆

Windows 2000 screens are used herein, whose contents are the same as those displayed by Windows XP.
When setting procedures to be performed are different between Windows 2000 and Windows XP, follow the procedure specific to the used OS to perform necessary settings.

➥ REFERENCE

The following CL-PC setups and software installation steps are completed at factory prior to shipment:

- *CL IP address (172.16.1.20)*
- *Subnet mask (255.255.0.0)*
- *CL host name (CRxxxxxxxx: 8 lowest digits of a manufacturer's serial number in the xxxxxxxx position)*
- *Administrator password setup (fcr-iip)*
- *Display setup (screen saver, screen resolution, etc.)*
- *MS-IME setup (only for units used in Japan)*
- *CL-AP (MSDE and SQL included) installation*
- *Standard Key Software installation*
- *AP key installation*
- *Image database initialization*

4.1.1 OS Startup

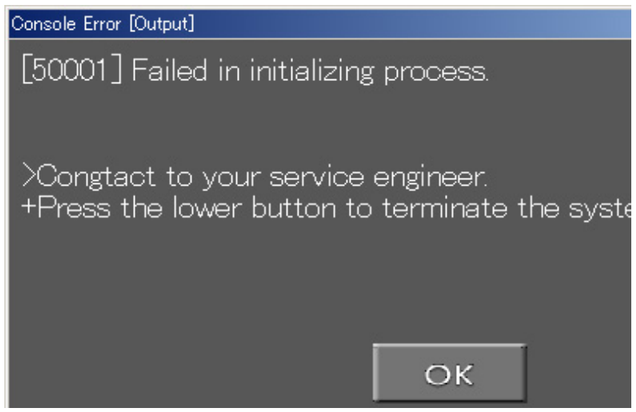
RU 5000P 356/357 36X

◆ *NOTE* ◆

Be sure to turn ON the power to the LCD first and then to the PC, otherwise the touch panel may not operate correctly.

1. **Turn ON the PC power.**

➔ The following error display opens 10 seconds after CL-AP startup.


Console Error [Output]
[50001] Failed in initializing process.
>Congtact to your service engineer.
+Press the lower button to terminate the syste
OK

00000421.EPS

➤ *IMPORTANT*

The above error display opens because an output system (print or image transfer) option key has not been installed/set up when the equipment was newly installed.

☞ ***For error details, see "3.4 Precautions to be Observed During the Use of Output Options" under, "MT: Machine Troubleshooting".***

2. **Click** OK **.**

➔ The error display opens again in about 20 seconds.

00000216.EPS

3. **Click** OK **.**

➔ The system returns to the desktop screen.

4.1.2 OS Setups

RU 5000P 356/357 36X

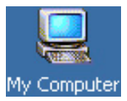
Perform the following OS-related setups.

- Setting the date, time and time zone.
- Defining the character to be used as a decimal point [applicable only to part of the area where the English software is used.]

■ Setting the date, time, and time zone

1. **Make setting as follows.**

● **F**or Windows 2000

- **Double-click** 

on the desktop.

➔ The "My Computer" window opens.

- **Double-click**

.

➔ The "Control Panel" window opens.

● **F**or Windows XP

Select

from the

menu.

➔ The "Control Panel" window opens.

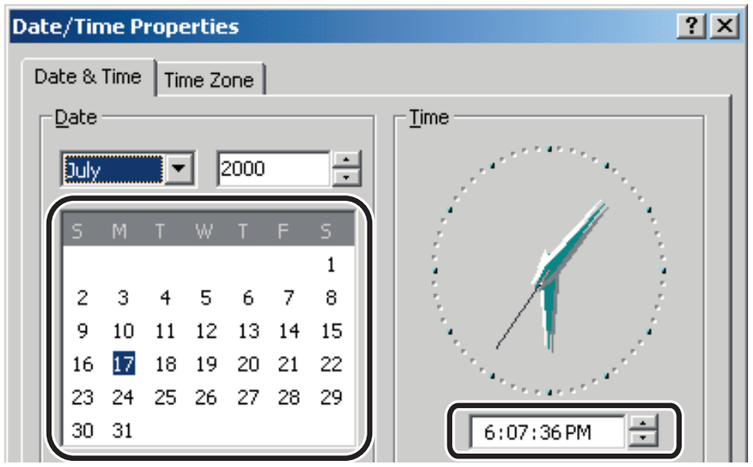
2. **Double-click**

.

➔ The "Date/Time Properties" window opens.

3. **Verify the date and time.**

If the date and time indicated are incorrect, correct them accordingly and then click Apply.

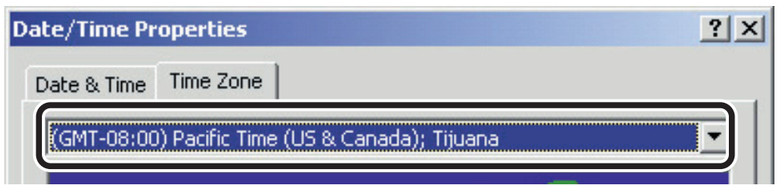


00000115.EPS

4. **Click Time Zone.**

5. **Verify the time zone setting.**

If the setting is wrong, correct it and then click Apply.



00000117.EPS

6. **Click OK.**

➔ The system returns to the desktop screen.

7. **Close the “Control Panel” window.**

■ Defining the character to be used as a decimal point

Select “.” (period) as the character to be sued as a decimal point.
If anything other than a period is selected, an error occurs when you select an image distribution destination with the QA function.
This setup is applicable only to part of the area where the English software is used.

☞ **For details of the setup procedure, see “■ Defining the character to be used as a decimal point” in “2.1.3 Setting the OS” under “RI: Reinstalling the Software”.**

4.1.3 Touch Panel Driver Installation [Skip this procedure if the 15” monitor with a touch panel is provided.] RU 5000P 356/357 36X

When the 15” monitor with the touch panel is going to be used, it is necessary to install the touch panel driver and adjust the touch panel.

■ Installing the driver

1. **Insert the driver CD-ROM into the CD-ROM drive.**

☞ **To install the touch panel driver using the FD or employ the L362T monitor, see “Appendix 1 Installing the Touch Panel Driver [Option]”.**

- For the previous-version CD-ROM

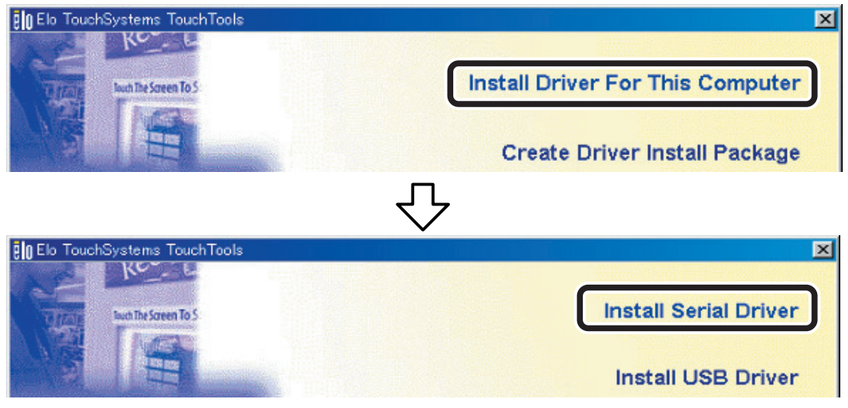
  When the CD-ROM is inserted into the CD-ROM drive, a window like that shown below opens automatically. Click “Install MonitorMouse for Windows 2000”.

Elo TouchSystems TouchTools
Install MonitorMouse for Windows 95 / 98
Install MonitorMouse for Windows 2000
Install MonitorMice for Windows NT 4.0

IN000102.EPS

- For the new-version CD-ROM

  When the CD-ROM is inserted into the CD-ROM drive, a window like that shown below opens automatically. Click “Install Drive For This Computer”. Click then “Install Serial Driver” on another window that opens.



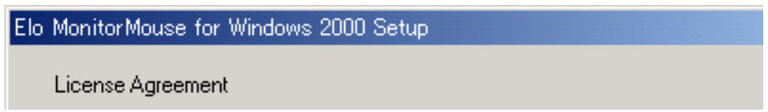
IN000103.EPS

➔ After a while, the “Elo MonitorMouse for Windows 2000 Setup” window opens.

IN000107.EPS

2. **Click** Next > .

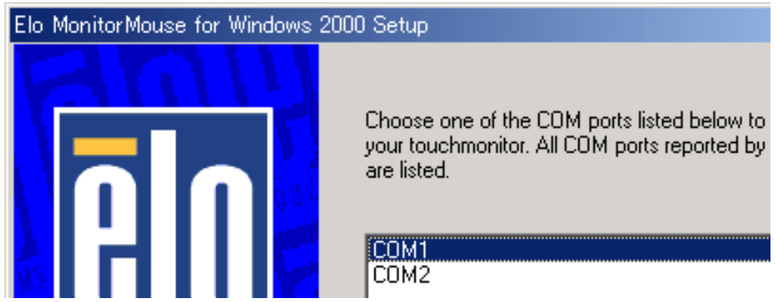
➔ The license agreement window opens.



00000412.EPS

3. **Click** Yes .

➔ The port selection window opens.


Elo MonitorMouse for Windows 2000 Setup
Choose one of the COM ports listed below to
your touchmonitor. All COM ports reported by
are listed.
COM1
COM2

00000413.EPS

◆ ***NOTE*** ◆

An error will occur if the serial cable of the LCD display provided with a touch panel is connected to serial port No. 2.

4. **Click** Next > .

➔ The “Digital Signature Not Found” window opens in several seconds.

Digital Signature Not Found
The Microsoft digital signature affirms that software has
been tested with Windows and that the software has not
been altered since it was tested.

00000415.EPS

5. **Click** Yes .

➔ In about one minute, a window opens to indicate the completion of installation.

00000418.EPS

6. **Click** Finish .

➔ The “Updating System Settings” window opens.

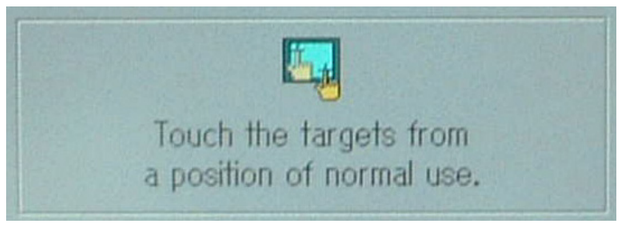
7. **Remove the CD-ROM from the PC’s drive.**

8. **Click** Yes .

➔ The PC restarts. The touch panel adjustment window will then opens automatically.

◆ ***NOTE*** ◆

Start adjusting the touch panel as soon as the window below has opened, otherwise it will close with the touch panel left unadjusted.



00000422.EPS

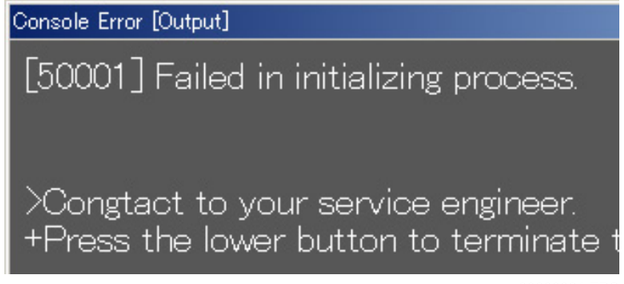
■ Adjusting the touch panel

☞ **For how to adjust the touch panel when using the L362T monitor, see "Appendix 1 Installing the Touch Panel Driver [Option]".**

◆ ***NOTE*** ◆

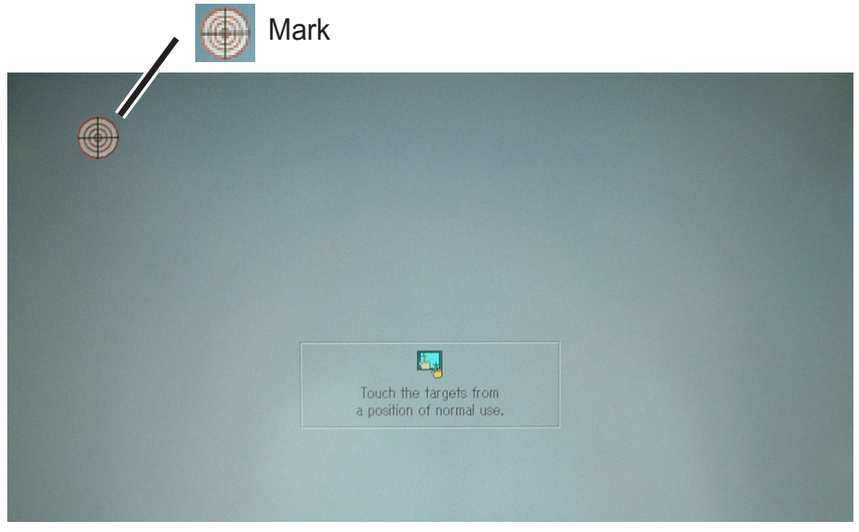
The following window may suddenly open during the touch panel adjustment process. It does not indicate any touch panel adjustment problem.

Click OK *to close the window and then continue with the touch panel adjustment process.*


Console Error [Output]
[50001] Failed in initializing process.
>Congtact to your service engineer.
+Press the lower button to terminate t

00000321.EPS

1. With your finger, gently touch the mark at the upper left of the window.



00000227.EPS

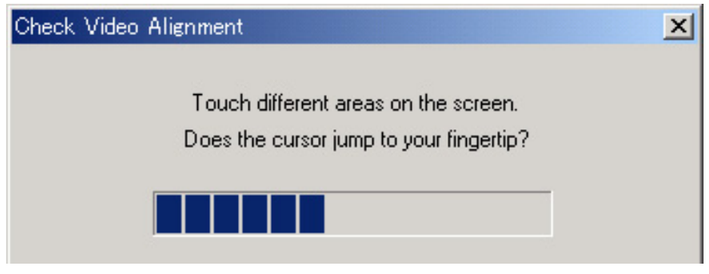
➔ The mark moves to the lower right of the window. (A beep will sound.)

2. Touch the mark gently with your finger.

➔ The mark moves to the upper right of the window.

3. Gently touch the mark again with your finger.

➔ The "Check Video Alignment" window opens.



00000316.EPS

4. Click Yes.

◆ ***NOTE*** ◆

Click Yes *within a period of 30 seconds. Failure to click* Yes *within a 30-second period invalidates the previous adjustments made.*

➔ The "Elo TouchSystems Setup" window opens.

5. Deselect ☑ View Elo Touchscreen control panel. **(☑ ➔ ☐) and then click Finish.**

➔ The system returns to the desktop screen.

◆ ***NOTE*** ◆

If a window opens to prompt FD insertion, click Cancel.

☞ **To set up other functions (e.g. for silencing the alarm sound) of the touch panel, see the documentation for the touch panel driver.**

■ Adjusting the contrast and brightness

Adjust the display contrast and brightness as follows.

● Model 9416TD15/H2

❍ Contrast : 127
(Press the “Menu” switch on the right-hand side of the monitor to adjust the contrast with Page1.)

❍ Brightness : 255
(Press the ▲ or ▼ button on the right-hand side of the monitor while the “Main Menu” is not displayed on the screen.)

● Model 9416TD15/H2-1

❍ Contrast : 65%
(Press the “Menu” switch on the right-hand side of the monitor to adjust the contrast with Page1.)

❍ Brightness : 100%
(Press the ▲ or ▼ button on the right-hand side of the monitor while the “Main Menu” is not displayed on the screen.)

● Model L350P-TS

❍ Contrast : 80%

❍ Brightness : 80%
(Press the “Enter” switch on the front of the monitor to adjust the brightness by selecting <Picture Adjustment>, then <Contrast Brightness>.)

● Model L351P-TS

❍ Contrast : 90%

❍ Brightness : 90%
(Press the “Enter” switch on the front of the monitor to adjust the brightness by selecting <Picture Adjustment>, then <Contrast Brightness>.)

● Model L362T

❍ Contrast : Default (not determined)

❍ Brightness : 90%

4.1.4 Procedure for Avoiding a Password Input Prompt When Exiting the Suspend Mode

RU 5000P 356/357 36X

By default, the PC prompts for password input when you attempt to exit the suspend mode. Since it is conceivable that the user may inadvertently press the Suspend button on the keyboard, perform the following procedure as needed.

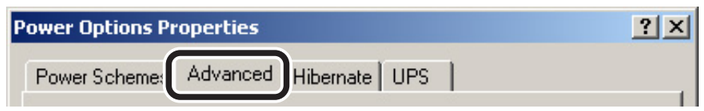
1. **From the Start menu, point to “Settings”, and then click “Control Panel”.**
(For Windows XP, select “Control Panel” from the Start menu.)

➔ The Control Panel opens.

2. **Double-click Power Options.**

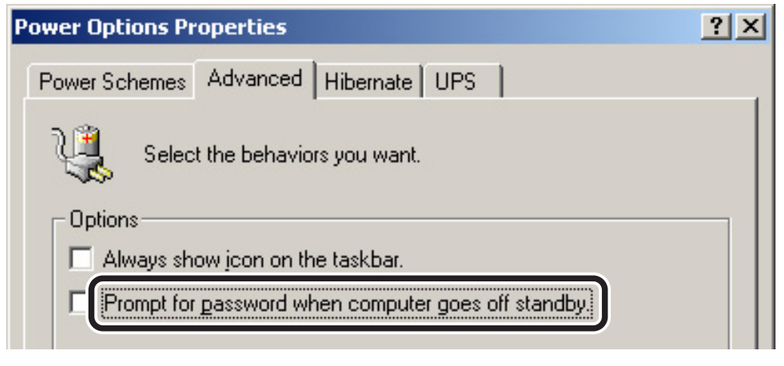
➔ The “Power Options Properties” window opens.

3. **Click the “Advanced” tab.**



IN000110.EPS

4. **Uncheck Prompt for password when computer goes off standby (☑ ➔ ☐).**



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5. **Click OK and then close the Control Panel.**

➔ You are returned to the desktop screen.

4.1.5 Option Key Installation

RU 5000P 356/357 36X

The following option keys are available. Install necessary option keys in compliance with the CL installation specifications.

➤ *IMPORTANT*

Either the image input/output function or print output option key must be installed.
If it is not installed, an error display (error code: 50001) will be indicated during CL-AP startup, resulting thus in disabling the CL-AP to be started up. Moreover, when the "IR346 DICOM CR STORAGE" and "IR346 DICOM PRINT" option keys have been installed, be sure to perform configuration settings as well.

The 50001 error display will be indicated if an output system (for print or image output) option key has not been installed/set up properly.

☞ ***For error details, see "3.4 Precautions to be Observed During the Use of Output Options" under "MT: Machine Troubleshooting".***

Function	Product Code	Description
Print output	IR346 LOCAL PRINT	LP (local printer) connection
	IR346 DICOM PRINT	DICOM Print function
Image input/ output	IR346 DICOM CR STORAGE	DICOM-based image transmission functions available (Also include a function to transmit unstandardized images to the QA-WS.) Options installed are as follows. • CR Storage SCU (Standard) • CR Storage SCU (Private) ("Private Unstandardized CR Storage" is included in "Private".)
	IR346 DICOM IM PROCESSED	Functions available for processed-image transmission with DICOM Options installed are as follows. • CR Storage SCU (Standard) • Processed image generation
	IR346 DMS NET-WORK IN-OUT	Function for image transfer (input/ output) with FINP Options installed are as follows. • FINP output • FINP input (Supports only the reprint function.)
Image input/ output	CL DICOM MAMMO S	CR Digital Mammography function (Image processing parameters will not be provided.)
	CL DICOM MAMMO P	CR Digital Mammography function (image processing parameters will be provided.)*1
	CL DICOM DVD STORAGE	Removable Media Image Storage function
	CL DICOM QR	Function for study query/image retrieve to/from filing devices.
Image storage assurance	CL DICOM COMMITMENT	A function assuring that an image has surely been stored in the archiver unit.*2
QA function	IR346 DELUX-QA	QA function addition*3, *4
	CL TILE-IM QA FOR PLUS	QA batch processing
Image processing	IR346 MFP	MFP image processing
	CL SHUTTER-PROC	Shuttering processing
	CL PEM	PEM image processing
	CL IM COMPOSITION	Image composition
	CL IM-MAGNIFY FOR LITE	Image magnification (for Lite Standard key)
	CL LUT-ADJUSTMENT FOR LITE	LUT adjustment for connection to other competing PACS (for Lite Standard key)
	CL ANNOTATION FOR LITE	Annotation function

*1 To use this option, the "CL DICOM MAMMO S" option key must have been installed.
*2 To use this option, the "IR346 DICOM CR STORAGE" option key must have been installed.
*3 When "IR346 DELUX-QA" is installed, all the QA functions are made available.
If it is not installed, only a limited number of QA functions available.
*4 You need not to install this option key because it has been installed if the 15" monitor with a touch panel is provided (applicable only for Japan).

Function	Product Code	Description
Image processing	CL GPR	Grid Pattern Removal processing function
	FCR QC TEST SOFT	Image Reader QC function
Acquisition of patient information	CL ID ONLINE	ID Online function
	CL DICOM ORDER MWM	DICOM worklist function
	CL DICOM ID MWM	DICOM worklist function (acquiring only patient information)
	CL DICOM MPPS	DICOM PPS function*1
	CL ORDER ONLINE	Ordering function (serial connection)
	CL ORDER ONLINE FOR TST	Ordering function (F-RIS)
Energy subtraction processing	CL ES	Energy subtraction function Make sure to install this function when XU-D1 is connected.
X-ray controller	CL X ONLINE	X-CON control function
P-Console	CL SOFT FOR POCKET ID CL	Portable exposure function (Applicable only in Japan)
Other	CL RETAKE ANALYSIS	Function for storage/calculation of exposure/mis-exposure image information.

*1 This option can be used only by combining it with “CL DICOM ORDER MWM” or “CL DICOM ID MWM”.

➥ ***REFERENCE***

Each option key is supplied on one dedicated CD-ROM for each product.

The installation procedure is described below.
The same installation procedure applies to all the option keys.

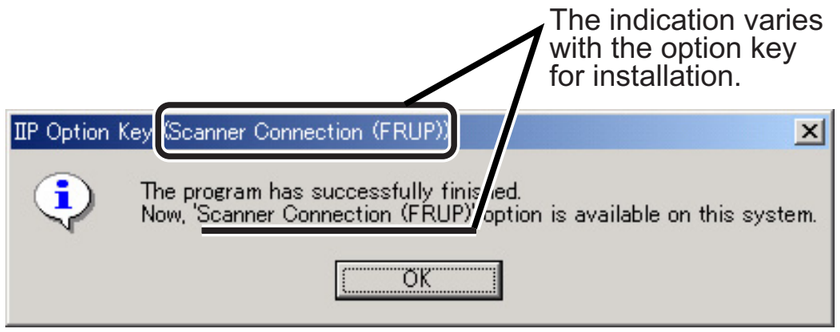
☞ **For the option key uninstallation procedure, see "Appendix A Uninstalling the APs" under "RI: Reinstalling the Software".**

1. **Insert an option key CD into the CD-ROM drive.**

➔ The installation start window automatically opens in several seconds.

2. **Click** Continue **.**

➔ A window opens to indicate the completion of installation.


The indication varies with the option key for installation.
IIP Option Key (Scanner Connection (FRUP))
The program has successfully finished.
Now, 'Scanner Connection (FRUP)' option is available on this system.
OK

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3. **Click** OK **.**

➔ The system returns to the desktop screen.

◆ ***NOTE*** ◆

Depending on the option for installation, the installation start window will be displayed some times. Perform steps 2. and 3. as well.

4. **Remove the CD from the CD-ROM drive.**

5. **To install other optional keys, replace the CD and repeat steps 2. to 4. above.**

4.1.6 AP Key Installation

RU 5000P 356/357 36X

◆ ***NOTE*** ◆

Install the AP key after all optional keys have been installed accordingly. This is because once an optional key is installed, the AP key becomes invalidated requiring thus the AP key to be reinstalled.

➥ ***REFERENCE***

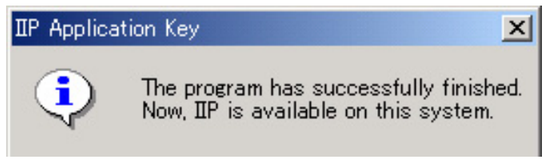
The CL is designed so that the CL-AP can be started up when registry information is generated to define the encryption key.
The associated registry information is generated when the AP key is installed.

1. **Insert the AP key CD into the CD-ROM drive.**

➔ After a while, the installation start window automatically opens.

2. **Click** Continue **.**

➔ A window opens to indicate the completion of installation.



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3. **Click** OK **.**

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

4.1.7 CL Startup Verification

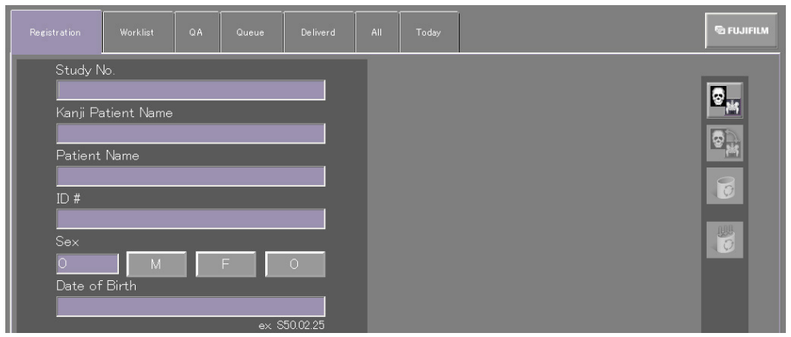
RU 5000P 356/357 36X

Verify the normal startup of the CL.
After the completion of startup verification, exit the AP.

1. From the Start menu, select "Programs", "Fuji Film", and then "FCR".

➔ The CL opening window appears on the display. After about two minutes, the CL-AP starts up.

- Version A software



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- Version B software

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◆ NOTE ◆

If the above window does not open or an error display appears, note the displayed error code and the applicable remedy, and then make necessary corrections to achieve AP startup.

See "1. Error Code Table" in "MT: Machine Troubleshooting".

2. Click Shut Down in the FUJIFILM (or FCR) menu.

➔ The exit window opens.

3. Hold down the <Shift> key and click OK.

➔ The CL-AP exits and the system returns to the desktop screen.

➥ REFERENCE

To shut down both the CL-AP and Windows, click [OK] without pressing the <Shift> key.
To shut down the CL-AP only, click [OK] while holding down the <Shift> key.

4.2 Setup for the CL with the Service Utility

Follow the workflow below to perform settings for the CL using the Service Utility.

- 4.2.1 Starting the Service Utility — RU 5000P 356/357 36X
- 4.2.2 CL System Information Setup — RU 5000P 356/357 36X
- 4.2.3 Optimizing the Monitor Display — RU 5000P 356/357 36X
- 4.2.4 Changing the Menu Database (for non-Japanese versions only) — RU 5000P 356/357 36X

4.2.1 Starting the Service Utility RU 5000P 356/357 36X

1. Click Start and then sequentially choose “Programs”, “Fuji Film”, and “FCR”.

➔ The CL-AP starts up.

2. Within a few seconds after the initial window opens, sequentially click the upper left and upper right corners of the window.

Click the upper left corner and then the upper right corner.

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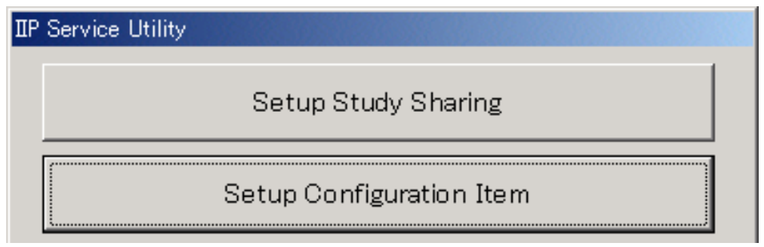
➔ The Service Utility starts. The “IIP Service Utility” window opens.



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➥ *REFERENCE*

If you cannot complete step 2 from the initial window within a 3-second period and allow the AP to start up, perform the following steps to start the Service Utility:

1. *To exit the AP, choose “Shut Down” from the FUJIFILM (or FCR) menu.*
2. *Click OK while holding down the <Shift> key.*
3. *From the Start menu, sequentially choose “Programs”, “Fuji Film”, and “FCR”.*
4. *When the initial window opens, sequentially click its upper left and upper right corners within a period of 3 seconds.*

4.2.2 CL System Information Setup

RU 5000P 356/357 36X

Complete setup concerning CL system information and IDT functionality as directed in this section.

■ Setting the system information

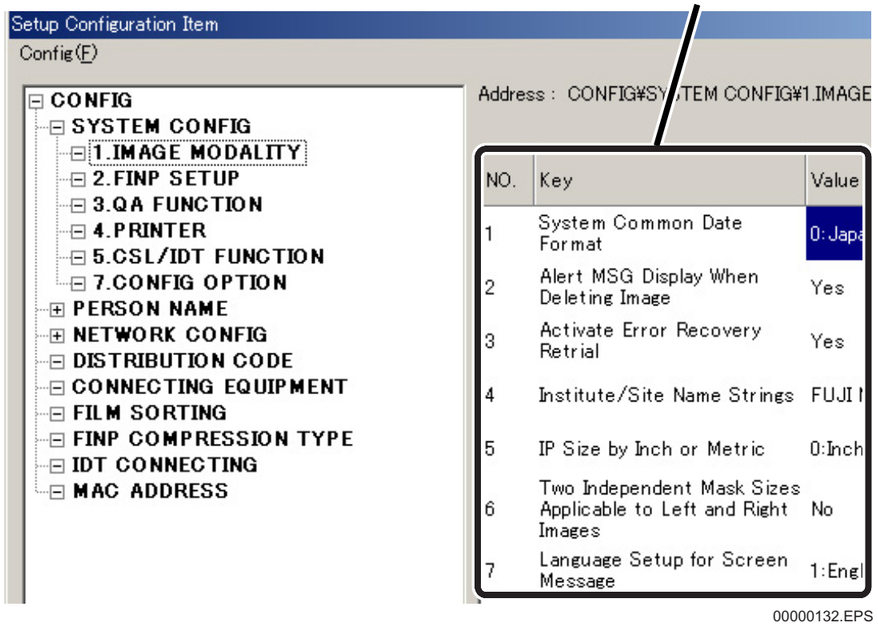
1. From the “IIP Service Utility” window, click [Setup Configuration Item].

➔ The “Setup Configuration Item” window opens.

2. Click the ⊞ sign within ⊟ SYSTEM CONFIG in the “Setup Configuration Item” window.

3. Click ⊟ 1.IMAGE MODALITY.

➔ The CL system information setup items appear.



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4. Enter setup data as directed below.

❍ Make a date format selection by double-clicking 0:Japanes date(S62.10.07) for 1 System Common Date Format.

- 0: Japanese date (S62.10.07) [Default]
- 1: ANSI long date (1987.OCT.07)
- 2: ANSI short date (1987.10.07)
- 3: American long date (OCT.07.1987)
- 4: American short date (10.07.1987)
- 5: European long date (07.OCT.1987)
- 6: European short date (07.10.1987)

◆ *NOTE* ◆

Use “System Common Date Format” to specify the date format. If you change the date format, the following items of information are changed to match the newly selected format.

- *Date output on film*
- *Format for birth date input*
- *Date displayed by CL-AP*
- *Other date indications*

❍ Make a hospital name entry (one-byte characters) by double-clicking FUJI FILM HOSPITAL for 4 Institute/Site Name Strings.

◆ *NOTE* ◆

Use “Institute/Site Name Strings” to enter a hospital name string of one-byte characters for use in the CL system.

The default hospital name is “FUJI FILM HOSPITAL”. Change this entry to a hospital name string of one-byte characters as defined by a specific hospital.

You can enter a string of up to 60 characters.

❍ Set the IP size unit system (inch or metric) for 5.CSL/IDT FUNCTION.

◆ *NOTE* ◆

Select this key to specify whether to display 35×43cm (14"×17") and 35×35cm (14"×14") images in the inch or metric system.

❍ Use [7 Language Setup for Screen Message] to specify the language to be used.

- 0: Japanese
- 1: English
- 2: German
- 3: French
- 4: Spanish
- 5: Italian
- 6: Swedish
- 7: Finnish
- 8: Danish
- 9: Norwegian
- 10: Korean
- 11: Chinese Simplified
- 12: Chinese Traditional
- 13: Portuguese

❍ Double-click [FUJI FILM HOSPITAL] for [8 Institute/Site Name in Two-Byte Characters] to enter a hospital name (consisting of two-byte characters).

◆ *NOTE* ◆

Use "Institute/Site Name in Two-Byte Characters" to enter a hospital name string of two-byte characters for use in the CL system.
The default hospital name is "富士フイルム病院". Change this entry to a hospital name string of two-byte characters as defined by a specific hospital.
You can enter a string of up to 15 two-byte characters.

❍ For connection to an RU (XG-1 RU) or 356/357/36X, make sure that the setting for [21 Connection Between Reader and Console] is [1:N-N]. If not, set it so.

❍ Set up the monitor pixel size for [30 Display Pixel Size].

- 15" LCD monitor with a touch panel : 297
- SL-IC300 : 207
- SL-IC200 : 255
- CRT monitor (17" Ikegami CRT monitor) : Calculate the pixel size using the expression below.

Monitor width (mm) ÷ number of pixels × 1000 = pixel size

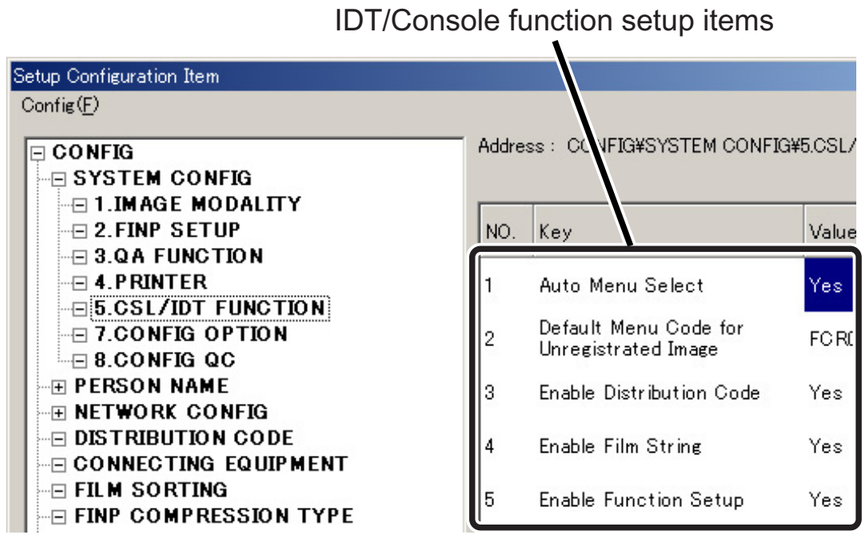
5. **Change the other items of system information as needed.**

☞ **For details of other setup items, see "3.4 Configuration Details — 1. IMAGE MODALITY" under "MU: Maintenance Utility".**

■ Setting the IDT functionality

1. **From the "Setup Configuration Item" window, click [5.CSL/IDT FUNCTION].**

➔ The IDT function setup items appear in the right-hand area of the window.



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2. **Edit the IDT functionality setup as needed.**

☞ **For details of the setup items, see "3.6 Configuration Details — 5. CSL/IDT FUNCTION" under "MU: Maintenance Utility".**

3. **From the "Config (F)" menu, choose "Save".**

➔ A window opens, prompting you to confirm the setup data to be saved.

4. **Click [Yes].**

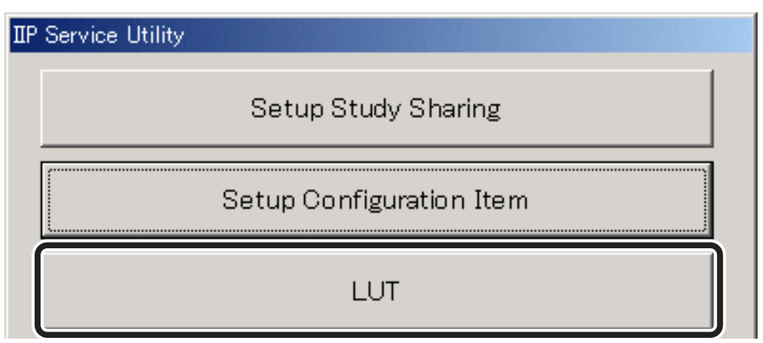
➔ The system saves the setup data.

4.2.3 Optimizing the Monitor Display

RU 5000P 356/357 36X

Set the LUT file as follows to optimize the image display of the monitor that is being used.

1. **Click [LUT] on the "IIP Service Utility" window.**



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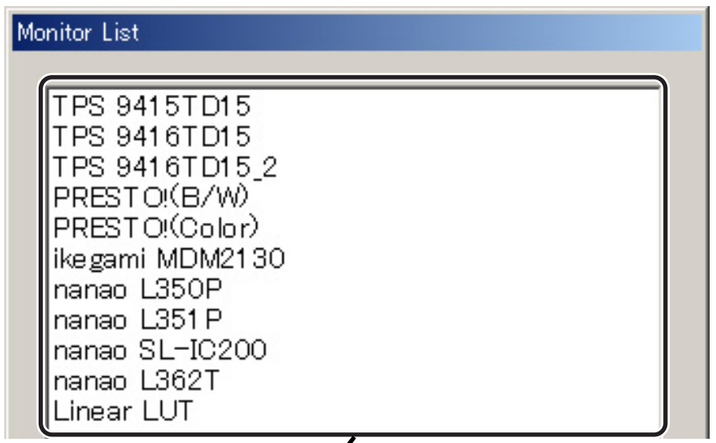
2. **Select the name of the display monitor that is actually being used and click** OK **.**



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- TPS 9415 TD15 : 15" LCD monitor with a touch panel (model TPS9415TD15/G2)
- TPS 9416 TD15 : 15" LCD monitor with a touch panel (model TPS9416TD15/H2)
- TPS 9416TD15_2 : 15" LCD monitor with a touch panel (model TPS 9416TD15/H2-1)
- PRESTO! (B/W) : Super Resolution LCD Monitor SL-IC300 (monochrome)
- PRESTO! (Color) : Super Resolution LCD Monitor SL-IC300 (color)
- ikegami MDM2130 : Ikegami 1k landscape monitor
- nanao L350P : EIZO 15" LCD monitor with a touch panel (model L350P-TS)
- nanao L351P : EIZO 15" LCD monitor with a touch panel (model L351P-TS)
- nanao SL-IC200 : LCD Monitor SL-IC200
- nanao L362T : EIZO 15" LCD monitor with a touch panel (model L362T)
- Linear LUT : Linear (straight line gradation) LUT

➔ You are returned to the “IIP Service Utility” window.

◆ *NOTE* ◆

To use a nanao L351P (model L351P-TS) with the CL software A08 or earlier install the LUT file on the FD provided with the LCD monitor.

[Installation procedures]
Copy the lut.txt and nanao_L351P.env files on the FD to the “C:\Program Files\FujiFilm\IIP\lut” folder (overwrite the lut.txt file).

4.2.4 Changing the Menu Database

RU 5000P 356/357 36X

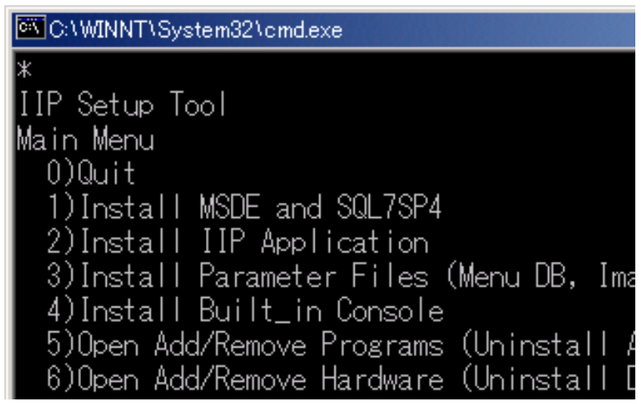
To change the exposure menu to a different language version, it is necessary to change the menu database. Languages supported by software version A10 or later are as follows.

- Japanese
- English
- English (other than U.S.)
- German
- French
- Spanish
- Italian
- Swedish
- Finnish
- Danish
- Norwegian
- Korean
- Chinese (Simplified)
- Chinese (Traditional)
- Portuguese

The default language setting is “English (other than U.S.)” (only for CLs to be shipped outside Japan). If a setting of “English (other than U.S.)” is to be continuously used, there is no need to perform the procedure described in this section.

1. Insert the CL-AP CD into the CD-ROM drive.

➔ The “IIP Setup Tool” main menu automatically opens.



IN000116.EPS

➥ ***REFERENCE***

The “IIP Setup Tool” is a utility tool that is used, for instance, to install the CL-AP. This tool is stored on the CD (product name: Application software; part number: 114Y5342001A) that is supplied as a standard accessory for the CL.

2. Enter “3” and press the <Enter> key.

➔ A window like that shown below opens.

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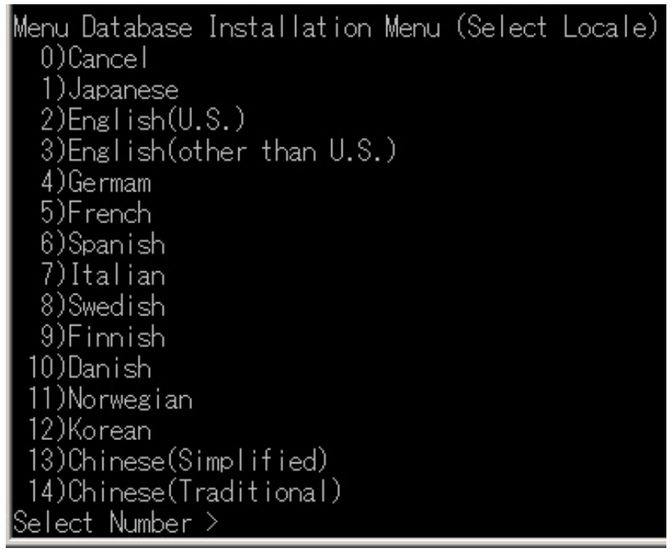
3. Enter “2” to use the DICOM MG Storage function (a digital mammography option), and “1” for other than that. Press then the <Enter> key.

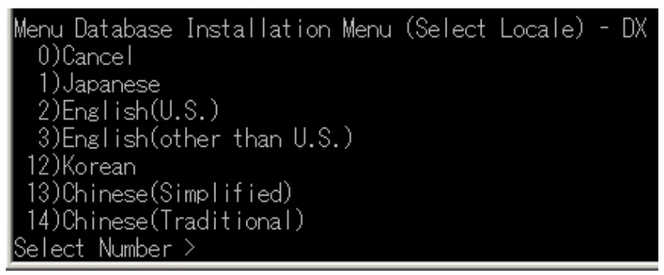
➔ A menu list of languages that can be installed opens.

- Standard menu



00000313.EPS

- DICOM MG Storage menu



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4. **Enter a number for the setting suited to the user's own environment and press the <Enter> key.**

5. **When an item other than "1) Japanese" has been selected, the three menus, "Cassette", "Built_in" (for standing position) and "Built_in" (for decubitus position), will be displayed. Select any according to the connected device.**

6. **Select a menu for whether or not to use the FNC parameter (Flexible Noise Control).**

➔ The message "Menu Database installation completed." appears completing thus changing the menu database.

7. **Enter "0" and then press the <Enter> key.**

➔ The "IIP Setup Tool" exits, returning you to the desktop screen.

8. **Remove the CD from the CD-ROM drive.**

4.3 Configuration Settings for LP Connection

RU 5000P 356/357 36X

Set the configuration used when connecting an LP to the CL.

☞ **See "2. Software Setup" in "CL + Local Printer (E-i/f Connection)" under "OE1: Connecting the CL to Other Connected Equipment".**

4.4 CL Settings for Connection to Other Equipment

RU 5000P 356/357 36X

Perform necessary settings for connecting the equipment shown in the table below to the CL.

Connected equipment	Function	Ref.
Local Printer	E-i/f Connection	☞ OE1
HI-C/QA-WS/OD-F	FINP: Image Input/Output	☞ OE2
HI-C655/QA-WS	DICOM CR Storage	☞ OE3
Other maker's equipment	DICOM CR Storage : Transfer of Processed Images	☞ OE4
FN-PS551/DRYPIX/FM-DPL	DICOM Print	☞ OE5
FN-PS551 or 5000 Series	FINP : Print Output	☞ OE6
RIS/IDC4	ID Online	☞ OE7
RIS	DICOM MWM/DICOM PPS	☞ OE8
Archiver	DICOM Storage Commitment Push	☞ OE9
QA-WS	Transfer of ES Images	☞ OE10
F-RIS	Ordering	☞ OE11
X-Ray Controller	Serial Connection	☞ OE12
RIS	Ordering (Serial Connection)	☞ OE13
Two or more CLs	Cluster Connection	☞ OE15
Other maker's equipment	DICOM MG Storage : Transfer of Digital Mammograms	☞ OE16
Removable Media Storage	DICOM Media Storage	☞ OE17
POCKET id Console	Portable exposure function	☞ OE18
Synapse Server	Web Query function	☞ OE19
DICOM Server	Image reprint function	☞ OE20

4.5 Barcode Reader/Magnetic Card Reader Connection

RU 5000P 356/357 36X

When using the barcode reader or magnetic card reader, perform the following connection and setup.

- Barcode reader connection and setup

  ☞ **For details on the connection, see "Appendix 3 Connecting the Barcode Reader [Option]."**

- Magnetic card reader connection and setup

  ☞ **For details on the connection, see "Appendix 4 Setting Up the Magnetic Card [Option]."**

4.6 Configuration Settings for IR (5000plus series) Connection

Explained below are the CL setup procedures to be followed when transferring images from the IR to the CL.

- 4.6.1 Starting CL Service Utility — 5000P
- 4.6.2 Setups Necessary for the CL — 5000P
- 4.6.3 Setups Necessary for the IR — 5000P
- 4.6.4 Setups Necessary for Exchanging ID Information — 5000P
- 4.6.5 IDT CONNECTION (Patient Information Sharing Function) Setup — 5000P
- 4.6.6 Saving Configuration — 5000P
- 4.6.7 Selector Setup (applicable only when a built-in device is connected) — 5000P
- 4.6.8 Settings for Transfer of Image Processing Parameters (only for A02 and A03) — 5000P
- 4.6.9 Connection Verification and Setup File Backup — 5000P

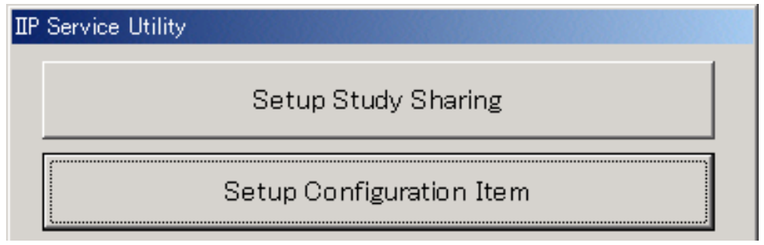
4.6.1 Starting CL Service Utility 5000P

1. **Start up the CL Service Utility mode.**

☞ See “1. Starting/Exiting the Service Utility” under “MU: Maintenance Utility”.

4.6.2 Setups Necessary for the CL 5000P

1. **Click the “Setup Configuration Item” button.**



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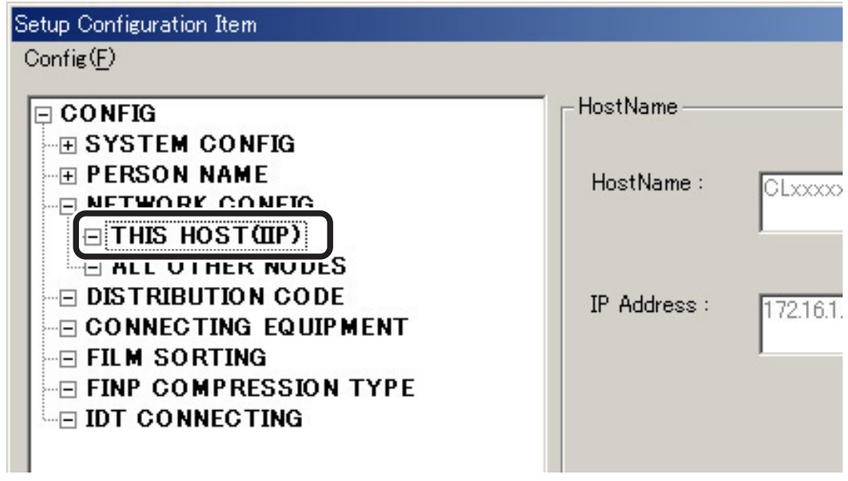
➔ The “Setup Configuration Item” window opens.

2. **Click [NETWORK CONFIG] — [THIS HOST(IIP)].**



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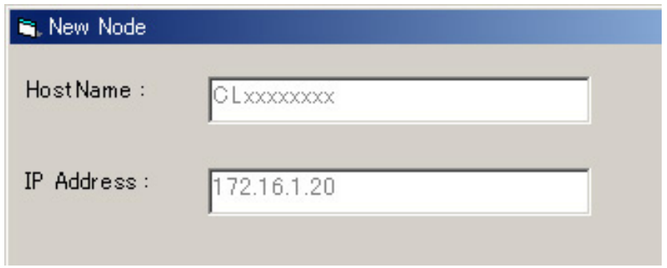
3. **Click** New **.**

➔ The [New Node] window opens.



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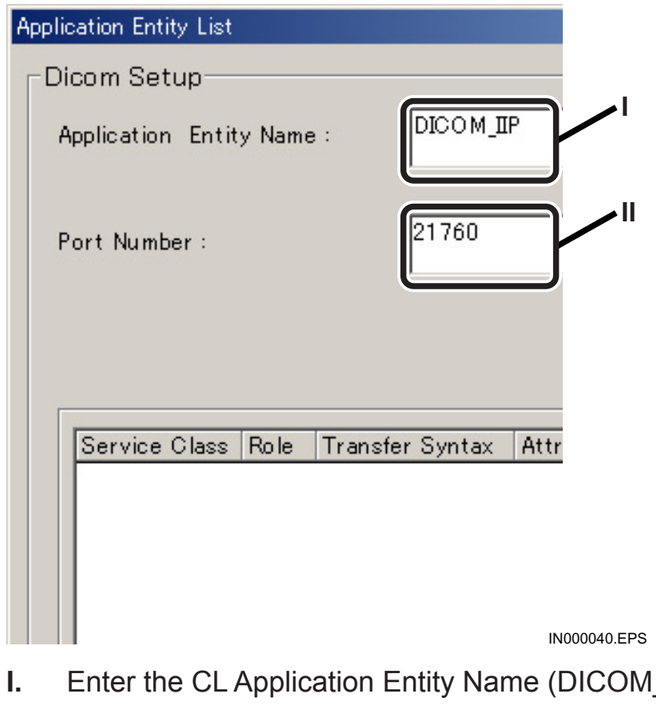
4. **Select** DICOM **of the "Add Node" box and click** OK **.**

➔ The "Application Entity List" window opens.

5. **Make the following settings on the "Application Entity List" window.**



IN000040.EPS

I. Enter the CL Application Entity Name (DICOM_IIP).
II. Enter the CL Port Number (21760).

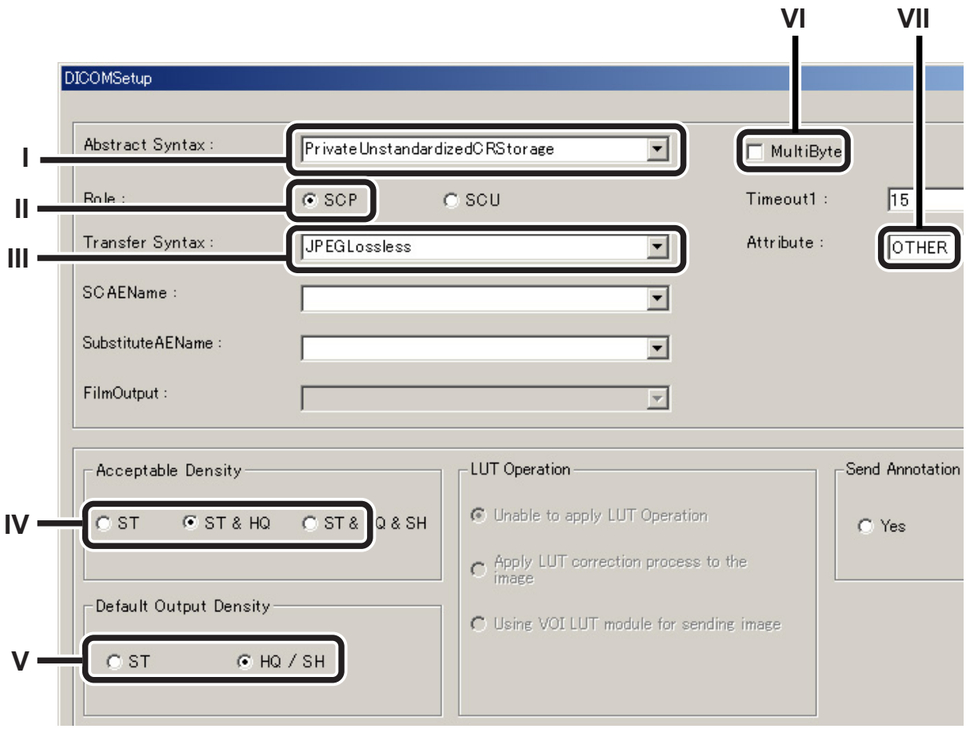
6. **Click** New **.**

➔ The "DICOMSetup" window opens.

➥ ***REFERENCE***

"DICOM_IIP" and "21760" are the 5000 series defaults values set when it is shipped from factory.

7. **Make the following settings on the “DICOMSetup” window.**



IN000041.EPS

I. Select “PrivateUnstandardizedCRStorage”.
II. Select “SCP”.
III. Select “JPEG Lossless”.
IV. Select “ST&HQ”. Select “SH” when the 5000MA is connected.
V. Select “HQ/SH”.
VI. To handle two-byte characters, check here.
VII. Select “OTHER”.

8. **Click** OK **.**

➔ You are returned to the “Application Entity List” window.

9. **Click** OK **.**

➔ You are returned to the “Setup Configuration Item” window.

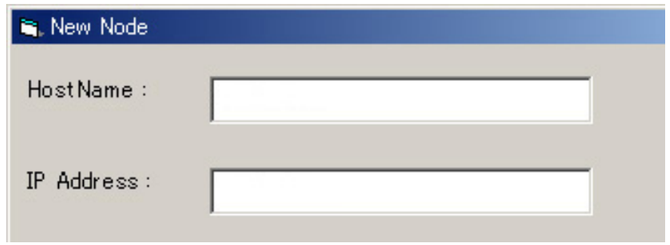
4.6.3 Setups Necessary for the IR

5000P

1. **Click** ⊟ NETWORK CONFIG **—** ⊞ ALL OTHER NODES **on the “Setup Configuration Item” window.**

2. **Click** New **.**

➔ The “New Node” window opens.



IN000042.EPS

3. **Enter the IR host name (fcr5501-n) in the** HostName : **field and the IR IP address (172.116.0.2) in the** IP Address : **field, respectively.**

◆ ***NOTE*** ◆

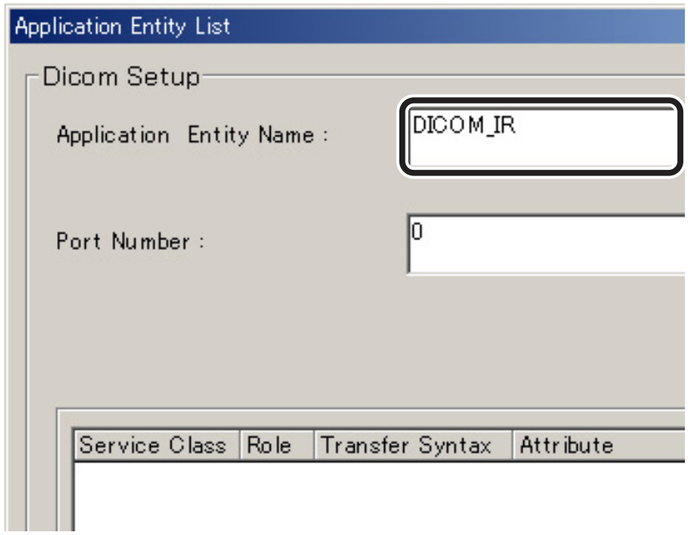
The default host name for each IR is as follows:

5000/5000R/5000MA/ : fcr5000-n
5501/5501D/5502D/XU-D1 : fcr5501-n

4. **Select** DICOM **in the “Add Node” box and click** OK **.**

➔ The “Application Entity List” window opens.

5. **Enter “DICOM_IR” for the IR Application Entity Name.**



IN000081.EPS

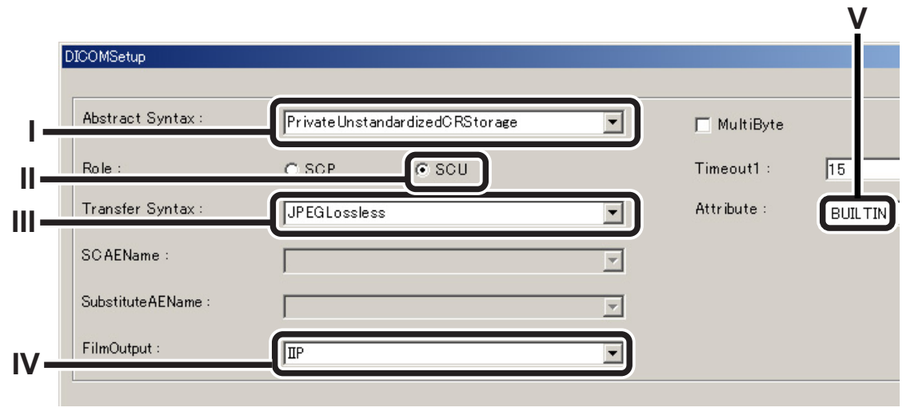
◆ ***NOTE*** ◆

The default Application Entity Name for each IR is “DICOM_IR”.

6. **Click** New **.**

➔ The “DICOMSetup” window opens.

7. **Makes the following settings on the “DICOMSetup” window.**



IN000044.EPS

I. Select “PrivateUnstandardizedCRStorage”.

II. Select “SCU”.

III. Select “JPEG Lossless”.

IV. Select a destination for film output.
Select “IIP” when connecting an LP to the CL and “FCR5000” when connecting an LP to the IR.

V. Select “BUILTIN” or “CASSETTE”.
5000/5000R/5000MA : CASSETTE
5501/5501D/XU-D1/5520D : BUILTIN

◆ ***NOTES*** ◆

- *When the XU-D1 is connected, do not select “FCR5000” in the “FilmOutput” box because the XU-D1 does not support LP output.*
- *When “IIP” has been selected for IV, with an LP connected also to the 5000 plus, make configuration settings (EQUIP file) for the 5000 plus PRINT function set to “Local_R”.*

8. **Click** OK **.**

➔ The “Application Entity List” window opens.

9. **Click** OK **.**

➔ You are returned to the “Setup Configuration Item” window.

4.6.4 Setups Necessary for Exchanging ID Information

5000P

◆ *NOTE* ◆

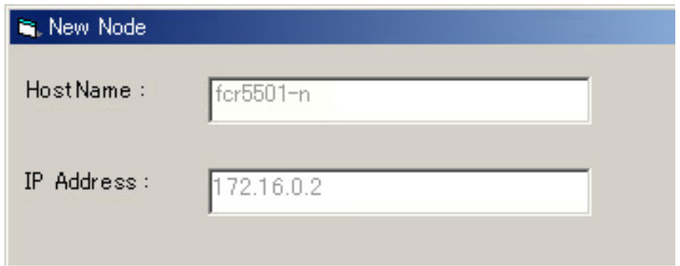
These setups can be omitted for the cassette-type IR. When omitted, FINP110 will interacts between IR and CL.

1. **Click ⊟ NETWORK CONFIG — ⊞ ALL OTHER NODES — ⊟ fcr5501-n (host name of other connected equipment) on the “Setup Configuration Item” window.**

2. **Click** New **.**

➔ The [New Node] window opens.

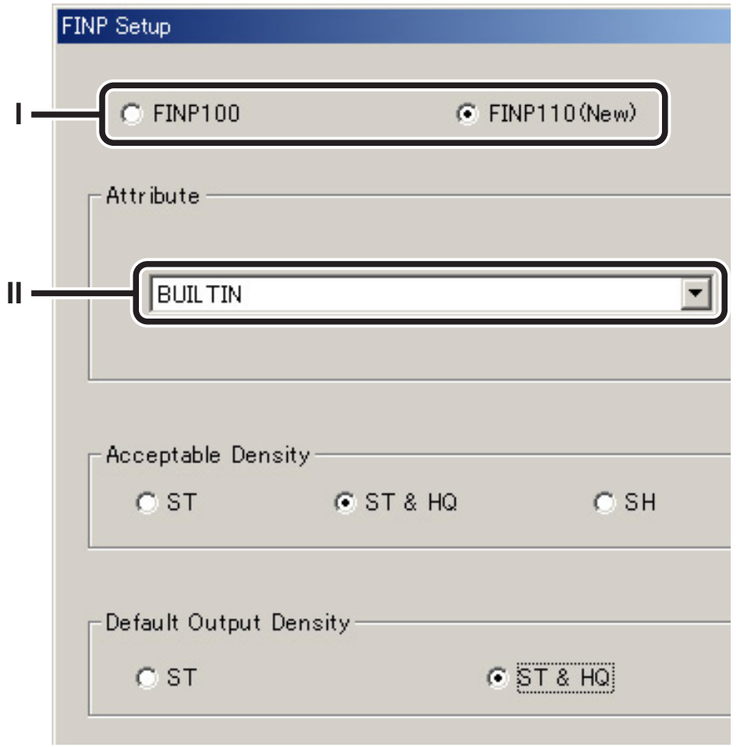
3. **Make sure that** ◉ FINP **has been selected in the “Add Node” box. Click** OK **.**



IN000045.EPS

➔ The “FINP Setup” window opens.

4. **Makes the following settings on the “FINP Setup” window.**



IN000046.EPS

I. Select ◉ FINP110(New).

II. Select “BUILTIN” or “CASSETTE”.
5000/5000R/5000MA : CASSETTE
5501/5501D/5502D/XU-D1 : BUILTIN

5. **Click** OK **.**

➔ You are returned to the “Setup Configuration Item” window.

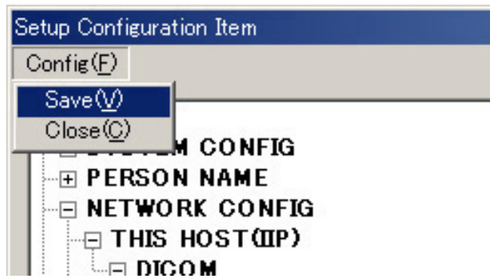
4.6.5 IDT CONNECTION (Patient Information Sharing Function) Setup 5000P

When two or more CLs are connected in the same system, make settings so that the patient information can be shared by all CLs connected.

☞ **For the procedure used for patient information sharing function setup, see "3.13 Patient Information Sharing Function Setup" under "MU: Maintenance Utility".**

4.6.6 Saving Configuration 5000P

1. **Select "Save" from the "Config (F)" menu of the "Setup Configuration Item" window.**



IN000047.EPS

➔ The "Close Configuration" window opens.

IN000048.EPS

2. **Click** Yes **.**

➔ The setup data will be saved.

3. **Select "Close" from the "Config (F)" menu.**

➔ You are returned to the Service Utility mode window.

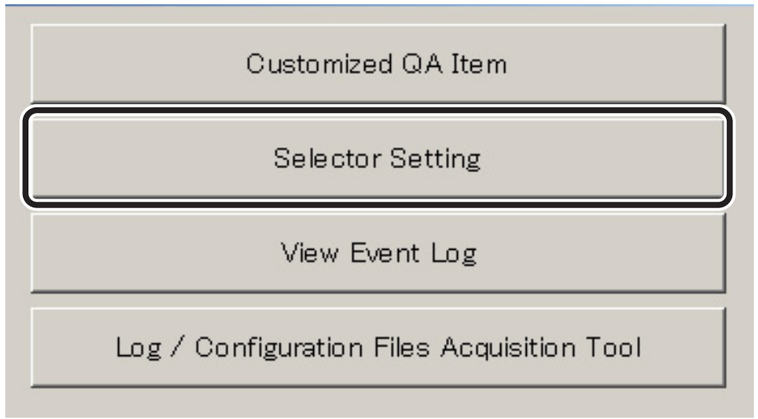
4.6.7 Selector Setup (applicable only when a built-in device is connected) 5000P

To connect a built-in device to the CL, register it to the selector. When connecting a cassette device, it needs not be registered because it has been registered as the default.

◆ ***NOTE*** ◆

Two built-in devices and eight at maximum of each of 5000 cassette-type devices can be connected respectively to the CL.

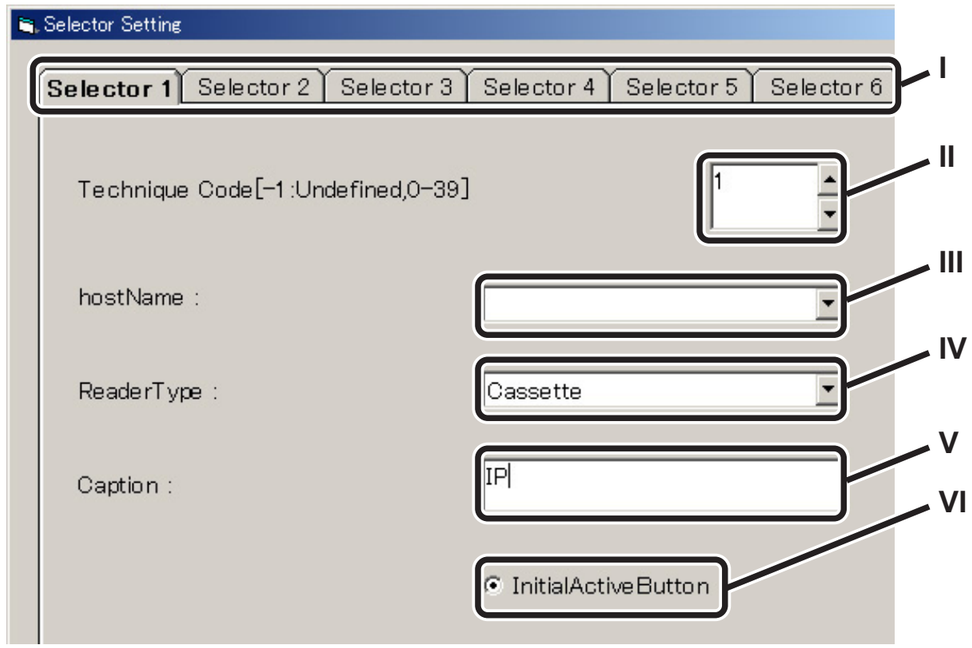
1. Click the “Selector Setting” button on the “Service Utility” window.



IN000049.EPS

➔ The “Selector Setting” window opens.

2. Make the following selector settings.



IN000050.EPS

I. Select an unregistered “Selector” tab.
As the default, a cassette device is registered to the “Selector1” tab.

II. Set the Technique Code paying attention not to set the same code with other selectors.

III. Select a device to be added to the selector (use the host name for selection).

IV. Select the Reader Type.
- 5501/5501D/XU-D1 : 5501
- 5502D : 5502
- To restore “Cassette”, select the blank from the pull-down menu of the “hostName” box.

V. Enter a maximum of five one-byte characters in the selector button.

VI. To restore the initially selected status when the CL was started, from the selector that is now being edited, turn the radio button ON.

3. If no cassette device (including CR-IR346RU) is connected, delete as follows the cassette device registered to the selector as the default.

1. Select the “Selector1” tab.
2. Change the Technique Code to “-1”.

4. **Click** OK **.**

➔ You are returned to the Service Utility mode window.

5. **Click the “Exit Service Utility” button.**

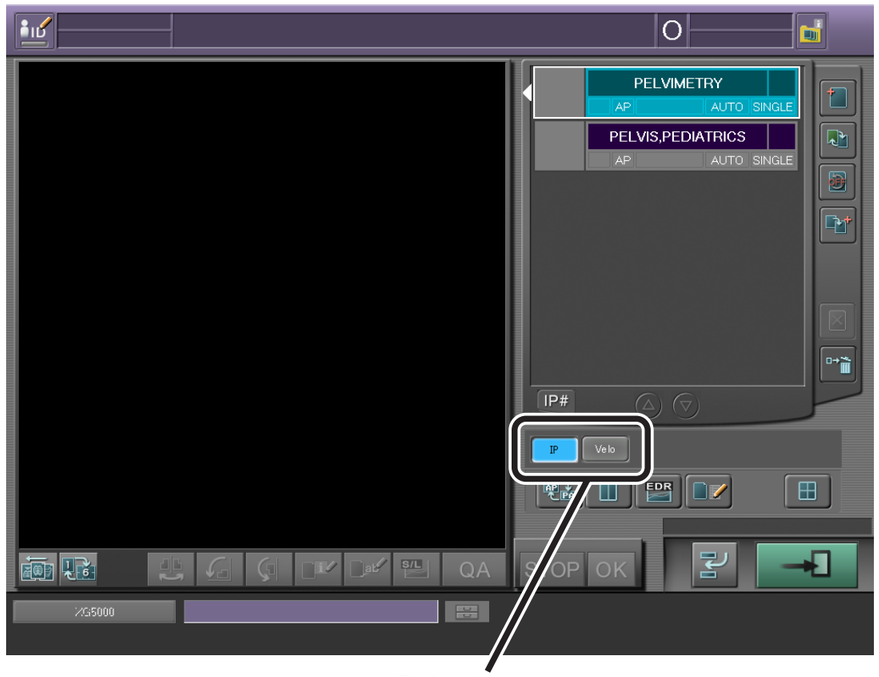
➔ The Service Utility mode will exit and you are returned to the desktop screen.

➥ *REFERENCE*

The window shown below represents an example of user display where one each of cassette device and built-in device have been set in the selector.

• Version A software

• Version B software



4.6.8 Settings for Transfer of Image Processing Parameters (only for A02 and A03) 5000P

Use the procedure described below to perform network settings necessary for transferring image processing parameters from the CL to the IR.

With software versions A02 and A03, image processing parameters are handled via the CPU90E board. For this reason, be sure to connect a network cable to the CPU90E board.

With CL software version A04 or later, image processing parameters are handled via the CPU90F board making it unnecessary to perform settings at this step.

➥ *REFERENCE*

Image processing parameter transfer refers to a user utility function that is responsible for matching the CL image processing parameters with those for the IR. With this function, you can overwrite the IR image processing parameter data with the CL image processing parameter data.

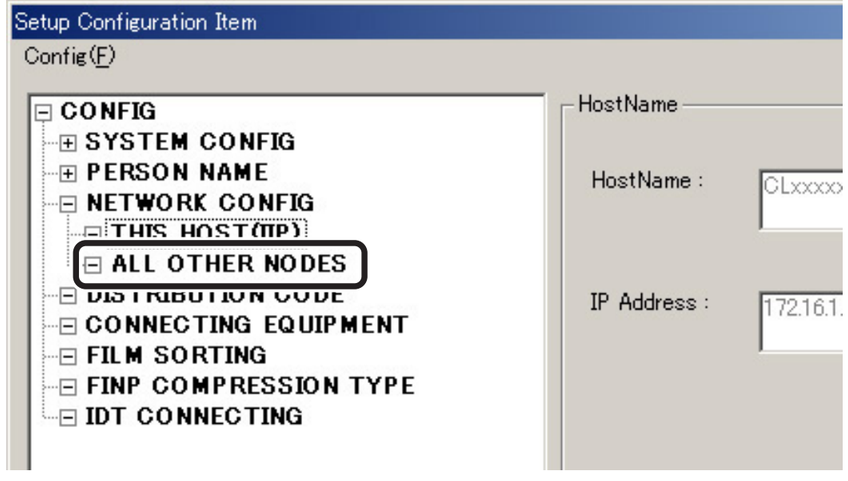
■ Setups necessary for the CL

"NETWORK CONFIG" — "THIS HOST (IIP)" settings have already been made in 4.6.2.

■ Setups necessary for the IR

Set the CPU90E board information as follows.

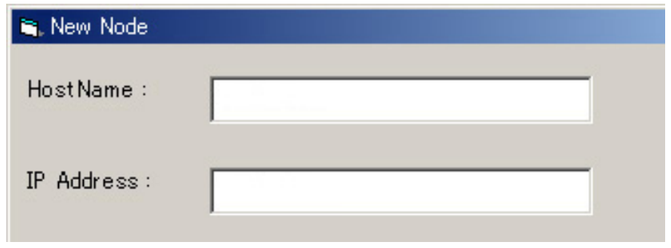
1. **Click ⊟ NETWORK CONFIG — ⊞ ALL OTHER NODES on the "Setup Configuration Item" window.**



IN000038.EPS

2. **Click New .**

➔ The "New Node" window opens.



IN000042.EPS

3. **Enter the CPU90E board host name in** HostName : [ ] **and the IP address (e.g.: 172.16.0.1) of the IR CPU90E board in** IP Address : [ ] **.**

◆ *NOTE* ◆

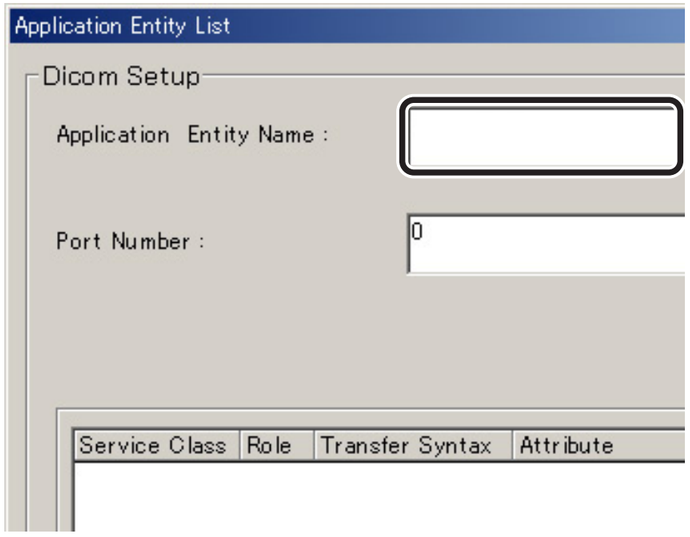
The default CPU90E board host name for each IR is as follows.

5000: fcr5000	*5000R: fcr5000*	*5000MA: fcr5000*
5501: fcr5501	*XU-D1: fcr55es*	*5502D: fcr5501*

4. **Select** (•) DICOM **in the "Add Node" box and click** OK **.**

➔ The "Application Entity List" window opens.

5. **Enter the Application Entity Name of the CPU90E board side.**



IN000053.EPS

6. **Click** New **.**

➔ The "DICOMSetup" window opens.

7. **Make the following settings on the "DICOMSetup" window.**

IN000054.EPS

I. Select "PrivateUnstandardizedCRStorage".
II. Select "SCU".
III. Select "JPEG Lossless".
IV. Select "BUILTIN" or "CASSETE".

5000/5000R/5000MA : CASSETE
5501/5501D/5502D/XU-D1 : BUILTIN

8. **Click** OK **.**

➔ You are returned to the "Application Entity List" window.

9. **Click** OK **.**

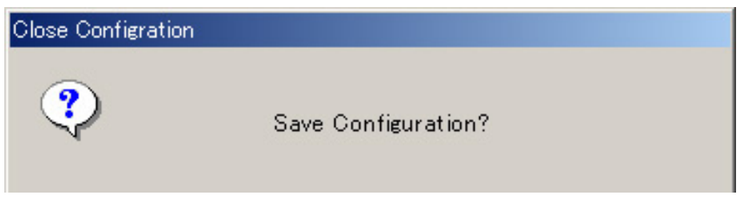
➔ You are returned to the "Setup Configuration Item" window.

■ Saving configuration and exiting the Service Utility mode

1. **Select “Save” from the “Config (F)” menu of the “Setup Configuration Item” window.**

IN000047.EPS

➔ The “Close Configuration” window opens.



IN000048.EPS

2. **Click**

.

➔ The setup data will be saved.

3. **Select “Close” from the “Config (F)” menu.**

➔ You are returned to the Service Utility mode window.

4.6.9 Connection Verification and Setup File Backup

5000P

- Connection verification
  - Connection between CL and IR
  - Connection to other equipment units
  - Output image (by causing the printer to generate a film output)

- Setup file backup
  - Back up the CL setup file.

☞ **See “7.1 Backing Up the CL Setup File” under “7. Setup File Backup and RU Error Log Verification/Deletion” in “IN-A: Installation — One RU Connection”.**

◆ *NOTE* ◆

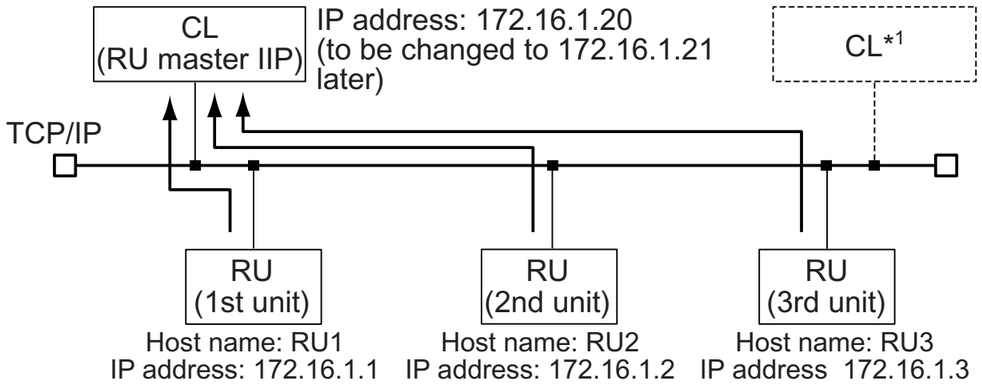
If you intend to connect the RU or CR-IR356/357/36X in a later procedure, do not back up the CL setup file at this stage.

4.7 Setup for RU (XG-1 RU) Connection

This section shows how to set up the CL that serves as the RU master IIP to transfer images to the CL.

For installation of a single CL, follow the procedure described herein to perform necessary settings for a CL that is to be used as the RU master IIP. When two or more CLs are to be installed, perform settings for a CL that will serve as the RU master IIP, and then perform "4.7.8 Settings Necessary for Connection of Two or More CLs" for the 2nd CL or later.

The subsequent explanations are given on the presumption that three RUs are connected to one CL.



*1 CL that does not serve as the RU master IIP (to be added in section 4.7.8).

IN000069.EPS

➥ ***REFERENCE***

You must perform an extremely complicated procedure to set up the CL as the RU master IIP for the connection of multiple RUs. It is therefore recommended that you read the function descriptions in the following reference sections in advance:

☞ ***See "5. Relationship between RU and CL", and "6. RU-CL N:N Connection Function Overview" under "MD: Machine Description".***

For RU connection setup, perform the following steps:

- 4.7.1 Performing Setup with the Service Utility — RU
- 4.7.2 Installing the RU M-Utility — RU
- 4.7.3 Installing the RU-AP (for 1st unit) — RU
- 4.7.4 Installing the RU-AP (for 2nd and 3rd units) — RU
- 4.7.5 Changing the CL IP Address — RU
- 4.7.6 Setting Up IDT CONNECTION (patient information sharing function) — RU
- 4.7.7 Setting the Selector — RU
- 4.7.8 Settings Necessary for Connection of Two or More CLs — RU
- 4.7.9 Checking Connections and Backing Up Setup Files — RU

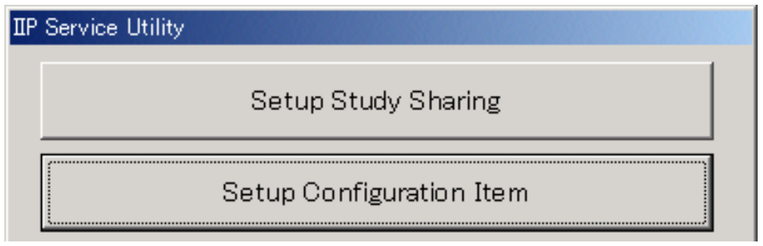
4.7.1 Performing Setup with the Service Utility RU

Register the network information and equipment information (CONNECTING EQUIPMENT) about the three RUs with the CL's Service Utility.

■ Registering the network information

1. **Start the Service Utility.**

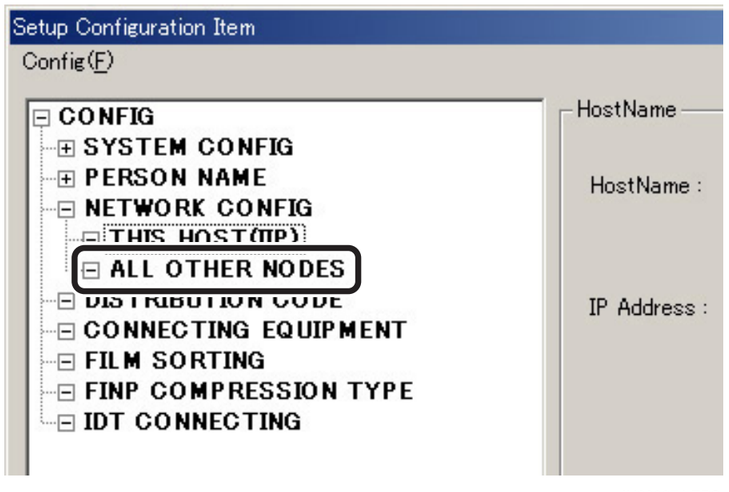
☞ **See "1. Starting/Exiting the Service Utility" under "MU: Maintenance Utility".**



00000404.EPS

2. **Click [Setup Configuration Item].**

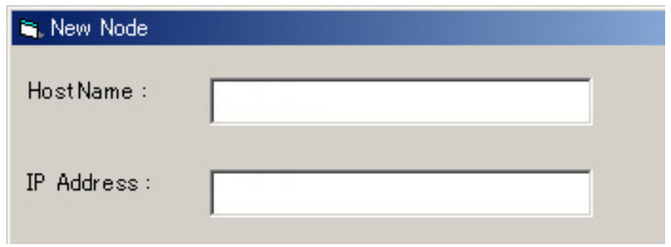
3. **Click NETWORK CONFIG and then click ALL OTHER NODES.**



IN000071.EPS

4. **Click New.**

➔ The "New Node" window opens.

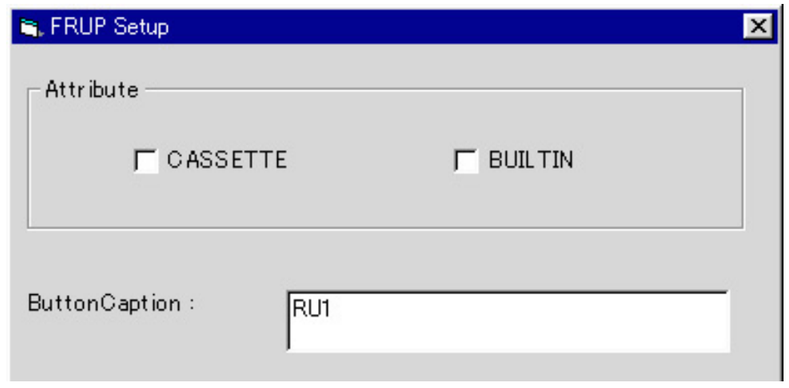


IN000042.EPS

5. **In the HostName : field, enter the host name of the first RU (RU1). In the IP Address : field, enter the IP address (172.16.1.1).**

6. **Choose FRUP in the [Add Node] area and then click OK.**

➔ The [FRUP setup] window opens.



IN000082.EPS

7. **Check CASSETTE in the [Attribute] area (☐ ➔ ☑).**

8. **In the** ButtonCaption : **field, enter “RU1”.**

➥ ***REFERENCE***

The character string entered need not be the same as the host name.

9. **Click** OK **.**

➔ The network information registration is completed for the first RU.

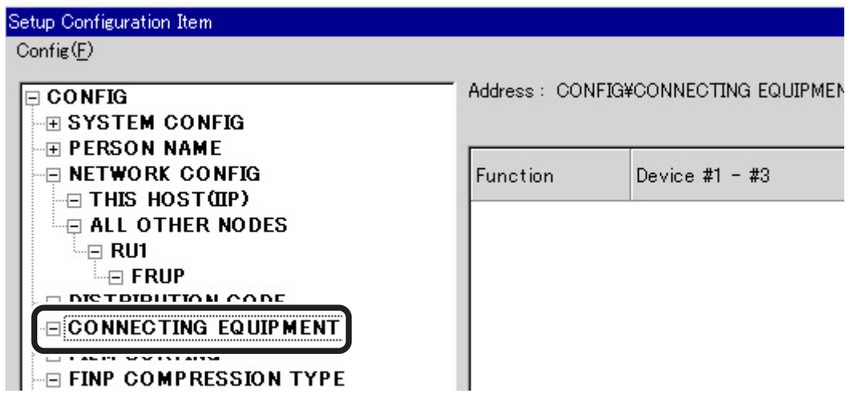
10. **Register the network information about the second and third RUs by performing steps 3. through 9.**

❍ Network information about the second RU
- Host name : RU2
- IP address : 172.16.1.2
- Button Caption : RU2

❍ Network information about the third RU
- Host name : RU3
- IP address : 172.16.1.3
- Button Caption : RU3

■ Registering the equipment information (CONNECTING EQUIPMENT)

1. **In the [Setup Configuration Item] window, click** ⊟ CONNECTING EQUIPMENT **.**

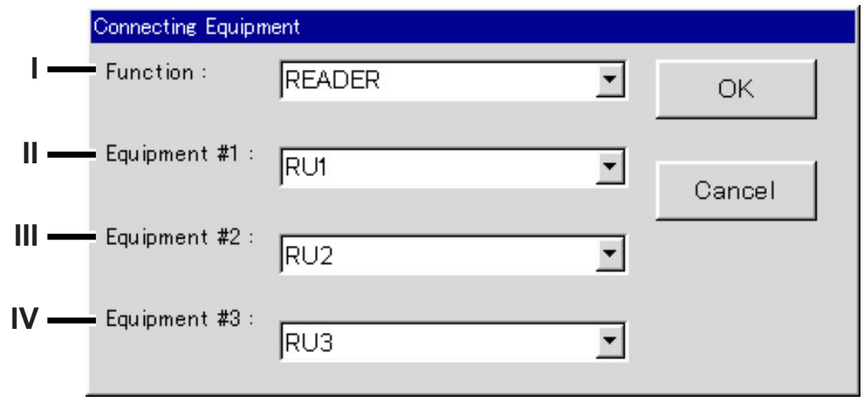


IN000083.EPS

2. **Click** New **.**

➔ The [Connecting Equipment] window opens.

3. **Register the equipment information as directed below:**



IN000072.EPS

I. Choose “READER”. **III.** Choose “RU2“.
II. Choose “RU1”. **IV.** Choose “RU3”.

◆ ***NOTE*** ◆

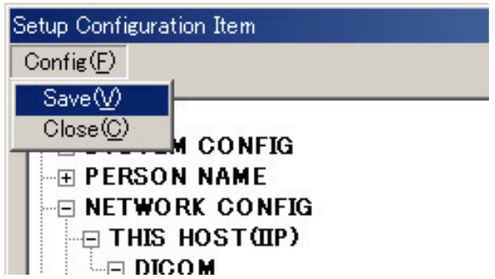
Do not register 5000plus series equipment for “Connecting Equipment”.

4. **Click** OK **.**

➔ The equipment information registration is now completed.
The system returns you to the [Setup Configuration Item] window.

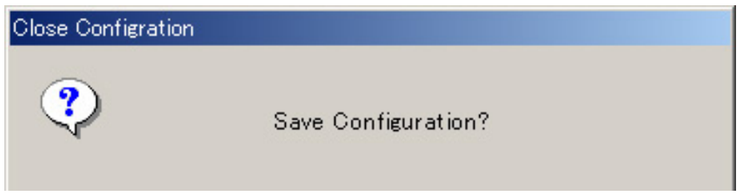
■ Saving the configuration data and exiting the Service Utility

1. From the [Config (F)] menu in the [Setup Configuration Item] window, choose [Save].



IN000047.EPS

➔ A window opens, asking whether you want to save the configuration data.



IN000048.EPS

2. Click [Yes].

➔ The system saves your setup data entries.

3. From the [Config (F)] menu, choose [Close].

➔ The system returns you to the Service Utility window.

4. Exit the Service Utility.

4.7.2 Installing the RU M-Utility

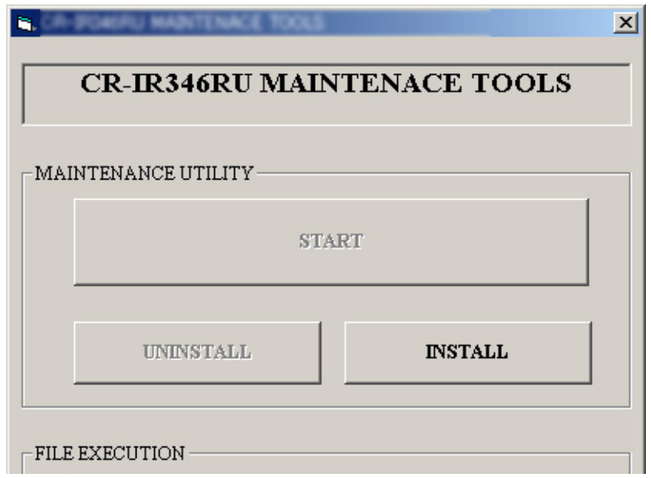
RU

◆ *NOTES* ◆

- *The RU M-Utility installation procedure is described herein on the assumption that the RU application CD-ROM version A07 or later is used for the RU M-Utility (PC-MUTL hereinafter) that is to be installed as follows. A different installation procedure will be required if a version earlier than that mentioned above is used.*
- *Make sure to start the procedure below with the CL-AP quit accordingly.*

1. Have on hand the CD that is supplied with the RU. Insert this CD into the CD-ROM drive.

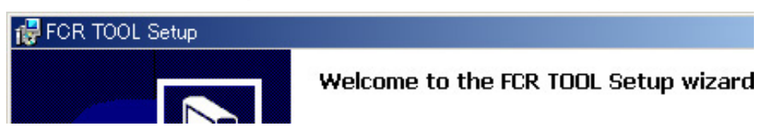
➔ After a while, the following window opens:



00000214.EPS

2. Click [INSTALL].

➔ The RU M-Utility installation start window opens.



00000185.EPS

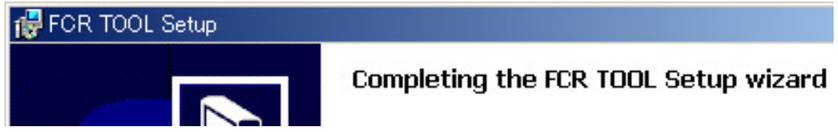
3. Click [Next >].

➔ The [FCR TOOL Setup/Ready to Install...] window opens.

00000187.EPS

4. **Click** Install.

➔ When the installation terminates, the [FCR TOOL Setup/ Completing the ...] window opens.



00000188.EPS

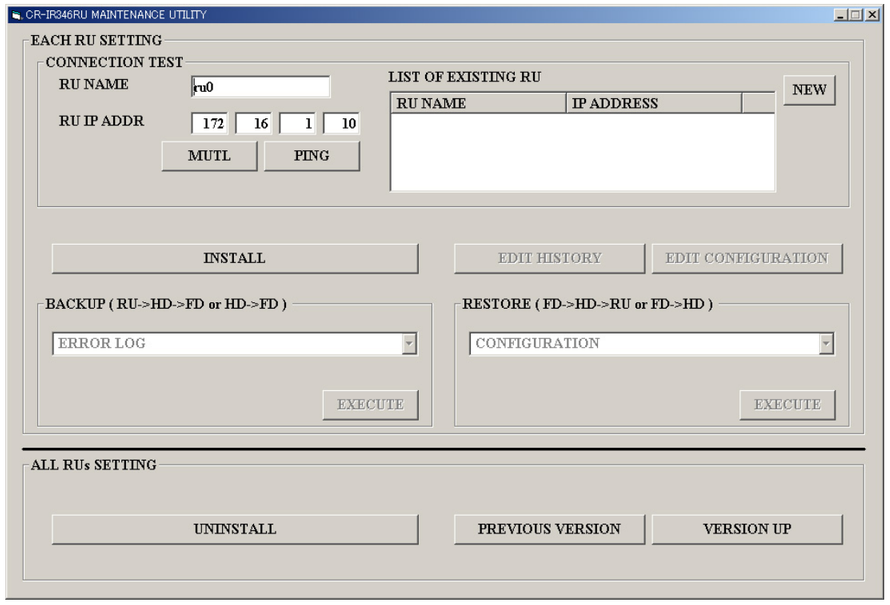
5. **Click** Finish.

➔ The system returns you to the [CR-IR 346RU MAINTENANCE TOOLS] window.

6. **Click** START.

➔ The [CR-IR 346RU MAINTENANCE UTILITY] main menu window opens.

● Main menu window
(the display differs depending on the software version used.)



00000215.EPS

4.7.3 Installing the RU-AP (for 1st unit) RU

Install the RU-AP for the first RU as directed below:

■ Verifying the network connection between the CL and RU

■ Installing the RU-AP

■ Verifying the network connection between the CL and RU

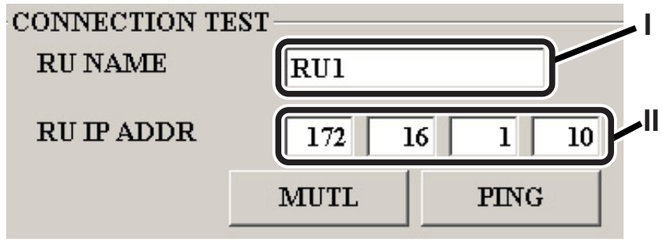
Before installing the RU-AP, check that the CL and RU are network-connected. The RU is factory preset to an IP address of 172.16.1.10.

◆ *NOTES* ◆

- *Make sure that the power cables of all the three RUs are connected to the circuit breaker.*
- *Perform the procedure below with the CL-AP shut down accordingly.*
- *Exit all APs (particularly Windows Explorer) other than the RU M-Utility.*

1. **Turn ON only the first RU. Leave the second and third RUs OFF.**

2. **With the main menu, conduct the following check:**



00000426.EPS

I. Enter the RU host name (RU1).
II. Check that “172.16.1.10” is entered.

◆ *NOTES* ◆

- *Since the host name entry made in step I. above becomes the formal RU host name, be sure to enter a correct host name here.*
- *Do not change “RU IP ADDR” to a setting other than “172.16.1.10”.*

☞ ***For the RU host name change procedure, see “Appendix 8 Changing the RU Host Name”.***

3. **Click PING.**

➔ The system beings to check for the connection to the RU.

4. **Verify the network connection to the RU.**

The connection is normal if the following message appears four times:
Reply from 172.16.1.10: bytes=32 time<10ms TTL=128

➥ ***REFERENCE***

The "time<10ms" and "TTL=128" portions of the above message vary with the network status. Even when their values vary, the connection is normal as far as the message appears four times.

◆ ***NOTE*** ◆

Be sure to verify the network connection. If you install the RU-AP without completing the proper network verification procedure, an error occurs when the RU restarts.

➥ ***REFERENCE***

If the connection to the RU cannot be verified, check whether the following causes exist:

- *Cable connection ➔ Check again.*
- *RU or CL network board ➔ Restart.*
- *Other*

If you still cannot verify the connection, initialize the RU memory so as to return the IP address recorded in the RU main unit to the default value, and reestablish the network connection.

☞ ***For details on the procedure for initializing the memory to reestablish the network connection to the CL, see "3.1 CL/RU Connection Recovery Procedure to be Performed upon RU Memory Initialization" under "MT: Machine Troubleshooting".***

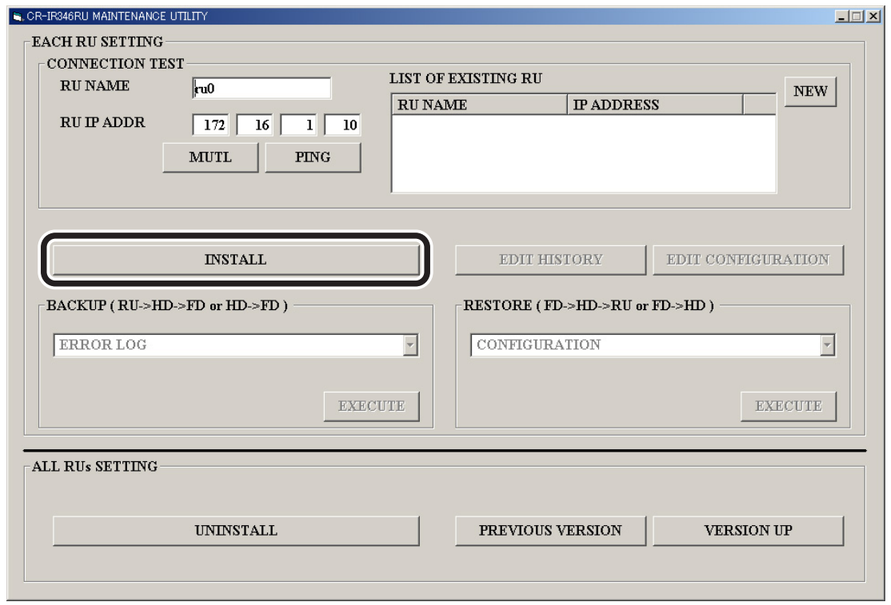
5. **Click ✕ at the upper right corner of the command prompt window.**

➔ The system returns you to the main menu.

■ Installing the RU-AP

Install the RU-AP on the first RU as directed below:

● Main menu window



00000502.EPS

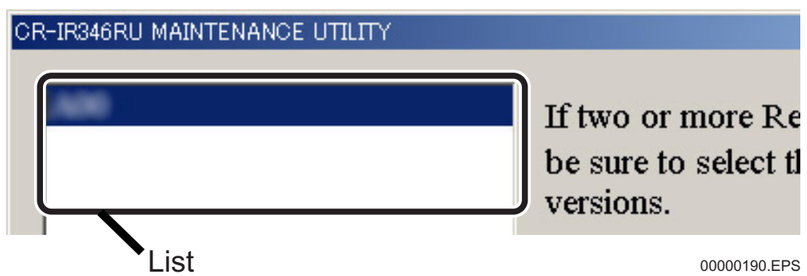
1. **In the main menu window, click [INSTALL].**

➔ The [Insert the CD-ROM into a drive] window opens.

2. **Since the CD containing the RU-AP is already inserted into the CD-ROM drive, just click OK.**

➔ The RU-AP version selection window opens.

3. **Select an RU-AP version (A05 or later) from the list and then click OK.**



00000190.EPS

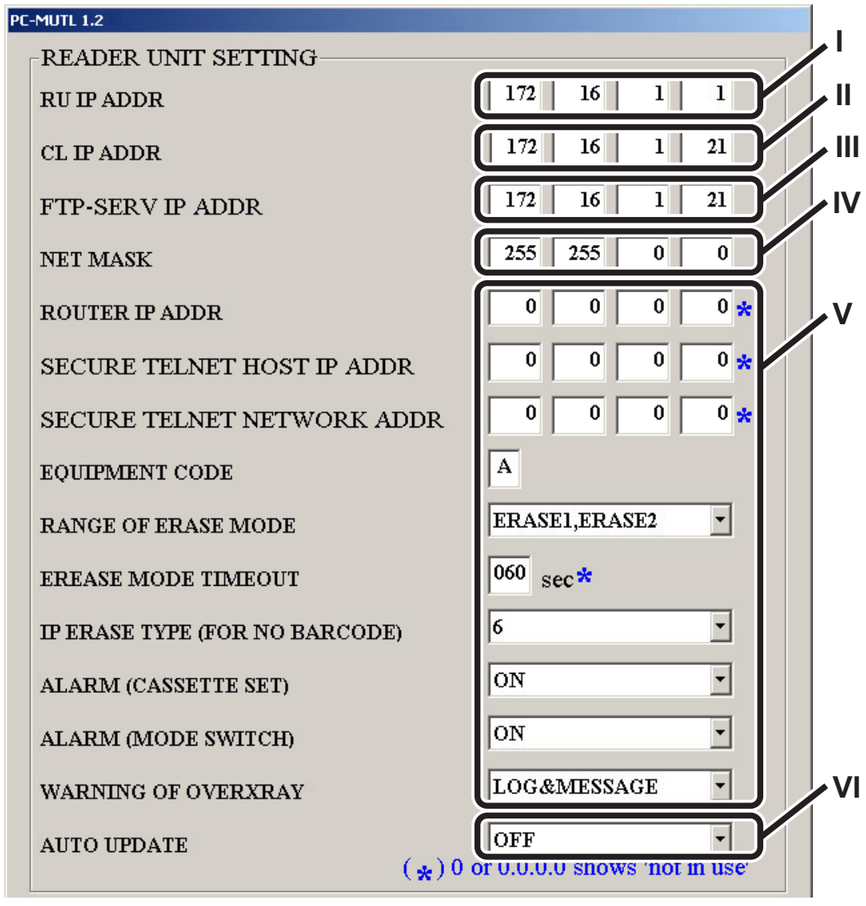
➔ The [READER UNIT SETTING] window opens.

4. Perform the following setup steps:

◆ ***NOTE*** ◆

The data set up as follows will be written on the RU-Config file and then installed in the RU together with the RU-AP.

☞ ***For the procedure used when changing the setup data after installation, see "Appendix 2 Setting the RU-Config".***



IN000063.EPS

I. Enter the formal IP address of the first RU (172.16.1.1 in the above setup example).

II. Enter the IP address of the CL (172.16.1.21 in the above setup example). Because the installation procedure hereafter can be simplified, enter 172.16.1.21 (changed IP address), instead of 172.16.1.20.

III. Enter the same IP address as CL IP ADDR (172.16.1.21).

IV. Enter the subnet mask (255.255.0.0 in the above setup example).

V. If necessary, change the settings indicated in the table below:

Configuration Setup Item	Setup Range	Default	Remarks
ROUTER IP ADDR	IP address setup range	0.0.0.0	Route address (Do not change the setup.)
SECURE TELNET HOST IP ADDR	IP address setup range	0.0.0.0	IP address available for the TELNET.
SECURE TELNET NETWORK ADDR	IP address setup range	0.0.0.0	Range of the IP address available for the TELNET.
EQUIPMENT CODE	A–Z	A	Machine serial ID code of the RU. (This code is printed on film.)
RANGE OF ERASE MODE	• ERASE 1 • ERASE 1, ERASE 2	ERASE 1	Specifies the erasure mode range. ERASE 1: Primary erasure can be selected. ERASE 1, ERASE 2: Both primary and secondary erasures can be selected.
ERASE MODE TIMEOUT	0 to 999 (sec)	060	Erase mode timeout setting.
IP ERASE TYPE (FOR NO BARCODE)	• 5, 6 • 6	6	Setup needed if no barcode reader is used. 5, 6 : Types V and VI mixed. 6 : Type VI
ALARM (CASSETTE SET)	• ON • OFF	ON	Sets alarm ON/OFF when cassette is inserted. ON : Alarm sounds. OFF : Alarm does not sound
ALARM (MODE SWITCH)	• ON • OFF	ON	Sets alarm ON/OFF when erasure processing is selected. ON : Alarm sounds. OFF : Alarm does not sound.
WARNING OF OVERXRAY	• LOG & MESSAGE • LOG • NONE	LOG & MESSAGE	Selects X-ray over-exposure IP warning method. LOG & MESSAGE: Warning by log and message. LOG : Warning by log. NONE : No warning issued.

VI. Select “OFF”.

➥ ***REFERENCE***

The AUTO UPDATE function will automatically have the RU download RU data from the FTP server if there is a discrepancy between CL FTP server data and RU FLASH ROM data.

☞ ***See “5.2 Mechanism of RU-AP/RU-Config AUTO UPDATE” in “MD: Machine Description”.***

5. **Click** SET **.**

➔ RU-AP installation will start. (It completes within a few minutes.)

◆◆ ***CAUTION*** ◆◆
(Applicable only for RU-AP version A07 or later.)

The RU panel will be illuminated during the RU-AP installation process. Never turn OFF the power to the RU or press the reset switch at this time, otherwise the RU CPU board can be damaged.

◆ ***NOTE*** ◆

Do not operate the CL-AP and RU-UTILITY while RU-AP installation is being performed.

6. OK **.**

➔ The system returns you to the main menu.

7. **Turn OFF the power to the first RU.**

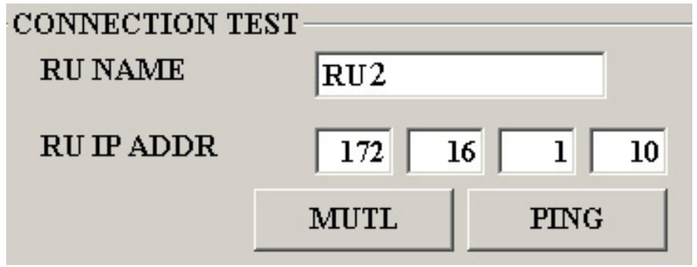
4.7.4 Installing the RU-AP (for 2nd and 3rd units) RU

For the second RU, install the RU-AP as directed below. For the third RU, perform the same installation procedure as for the second unit.

1. **Check to see that the first RU has been turned OFF and then turn ON the second RU.**

Leave the third RU OFF.

2. **In the same manner as for the first RU, verify the network connection to the second RU.**



* For the third RU, enter "RU3" in the RU NAME box.

00000611.EPS

➥ ***REFERENCE***

The second RU is factory preset to the same IP address (172.16.1.10) as for the first RU. Use this IP address for verification purposes.

3. **In the main menu window, click [INSTALL]. Install the RU-AP on the second RU in the same manner as for the first RU.**

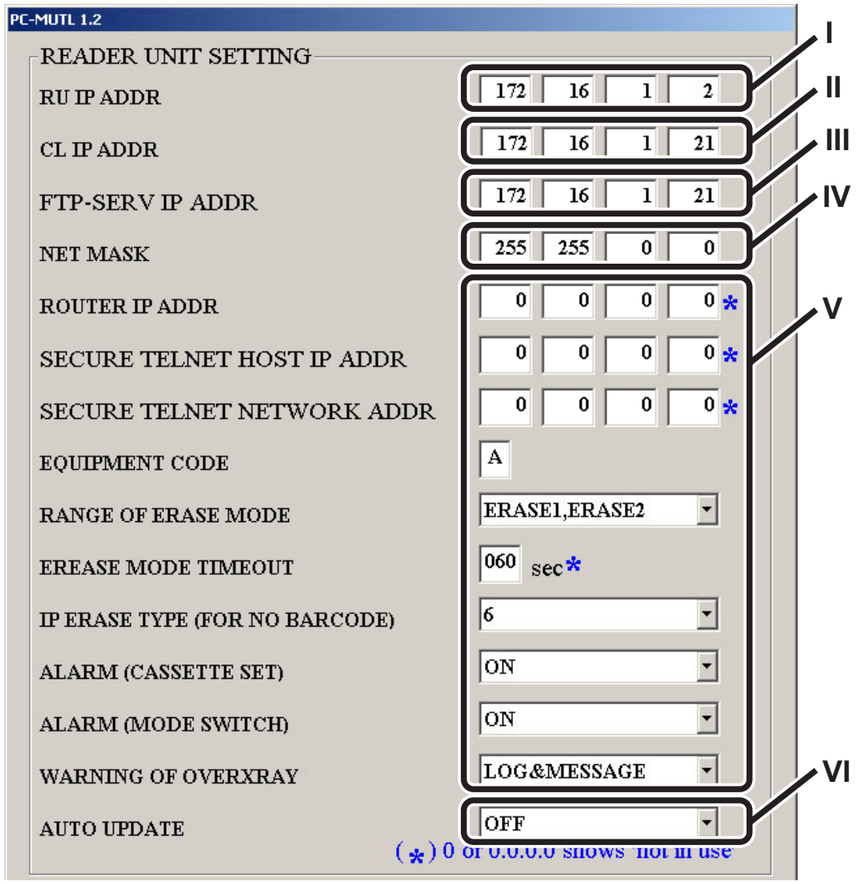
◆◆ ***CAUTION*** ◆◆
(Applicable only for RU-AP version A07 or later.)

The RU panel will be illuminated during the RU-AP installation process. Never turn OFF the power to the RU or press the reset switch at this time, otherwise the RU CPU board can be damaged.

➥ ***REFERENCE***

In the [READER UNIT SETTING] window, perform setup for the second RU as indicated below. (Enter data I through IV as shown below. Edit data V as needed. For box VI, select OFF.)

— READER UNIT SETTING window —



IN000075.EPS

4. **Install the RU-AP on the third RU in the same manner as for the second RU.**

5. **Exit the RU M-Utility mode.**

◆ ***NOTE*** ◆

(Applicable only for RU-AP version A06 or earlier.)

If the RU-AP version installed is A06 or earlier, be sure to start the CL-AP to have the FTP server RU data de downloaded to the RU FLASH ROM.

4.7.5 Changing the CL IP Address

RU

Change the CL main unit's IP address from 172.16.1.20 to 172.16.1.21.

☞ **For the change procedure, see "Appendix 9 Changing the CL IP Address".**

◆ ***NOTE*** ◆

When changing the IP address, pay due attention to the netmask settings. You might have to change the netmask size depending on the IP address to be set up.

4.7.6 Setting Up IDT CONNECTION (patient information sharing function)

RU

Set up IDT CONNECTION in the Service Utility mode.

◆ ***NOTE*** ◆

Be sure to set up IDT CONNECTION even if only one CL is connected in the same system, otherwise images will not be transferred from the RU to the CL, resulting thus in an error occurrence (error code: 31418).

☞ **For the IDT CONNECTION setup procedure, see "3.13 Patient Information Sharing Function Setup" under "MU: Maintenance Utility".**

4.7.7 Setting the Selector

RU

If the selector has been set to OFF with respect to the RU, perform setup so as to permit cassette equipment use.

☞ **For the selector setup procedure, see "12. Setting the Selectors - Selector Setting" in "MU: Maintenance Utility".**

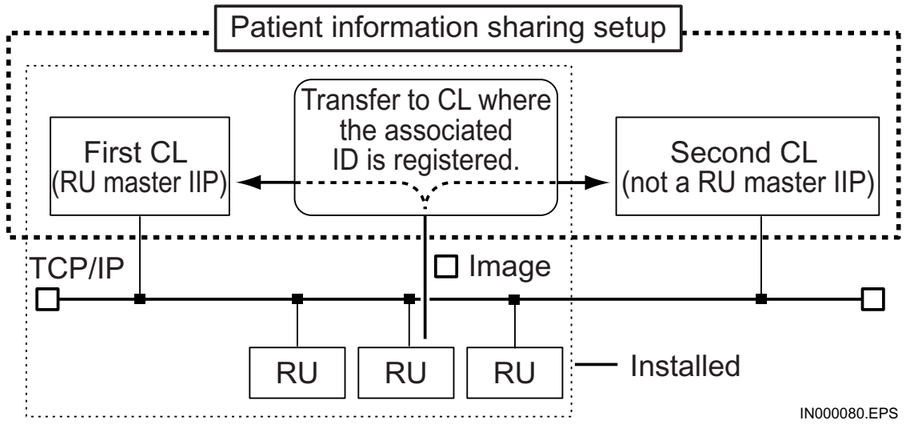
4.7.8 Settings Necessary for Connection of Two or More CLs RU

Perform patient information sharing setup for the second and subsequent CLs.

☞ **For details on the patient information sharing setup procedure, see "3.13 Patient Information Sharing Function Setup" in "MU: Maintenance Utility".**

◆ *NOTES* ◆

- *Perform patient information sharing setup for the CL serving as the RU master IIP (first CL) and the CLs not serving as the RU master IIP (second and subsequent CLs). If setup is not completed for both types of CLs, images cannot be transferred from the RUs.*
- *In situations where two or more CLs are connected, the second and subsequent CLs are entitled to receive images from the RUs simply when you complete patient information sharing setup for them.*



- *Even when two or more of the installed CLs serve as RU master IIPs, be sure that patient information sharing setup is completed with respect to each other. The reason is that a certain such CL may receive images from RUs that it does not manage.*

4.7.9 Checking Connections and Backing Up Setup Files RU

- Connection checkout
  - Connection between CL and RU
  - Connection to other equipment units
  - Output image (by causing the printer to generate a film output)
- Setup file backup
  - CL setup file
  - RU setup file (RU master IIP only)
  - RU error log checkout and deletion (RU master IIP only)

☞ **For details of each item, see "6. Checkout Procedures" and "7. Setup File Backup and RU Error Log Verification/Deletion" under "IN-A: Installation — One RU Connection".**

◆ *NOTE* ◆

If you intend to connect the CR-IR356/357/36X in a later procedure, do not back up the CL setup file at this stage. However, the RU setup file must be backed up at this stage.

4.8 Setup for CR-IR356/357/36X Connection

This section describes the CL setup procedures for image transfer from CR-IR356/357/36X to CL. The setup steps to be performed are outlined below:

- 4.8.1 Changing the CL IP address — 356/357 36X
- 4.8.2 Performing Setup with the Service Utility — 356/357 36X
- 4.8.3 IDT CONNECTION (patient information sharing function) Setup — 356/357 36X
- 4.8.4 Selector Setup — 364 366 367
- 4.8.5 Settings Necessary for Connection of Two or More CLs — 356/357 36X
- 4.8.6 CR-IR356/357/36X Setup — 356/357 36X
- 4.8.7 Connection Verification and Setup File Backup — 356/357 36X
- 4.8.8 Wake-on-LAN Setup — 356/357 364 366 367

4.8.1 Changing the CL IP Address

356/357 36X

When installing the CL at an IP address setting other than 172.16.1.20, change the CL's IP address by performing the procedure specified below:

☞ See "Appendix 9 Changing the CL IP Address".

◆ *NOTE* ◆

When changing the IP address, pay attention to the netmask setting. It may be necessary to change the netmask size depending on the IP address to be set.

4.8.2 Performing Setup with the Service Utility

356/357 36X

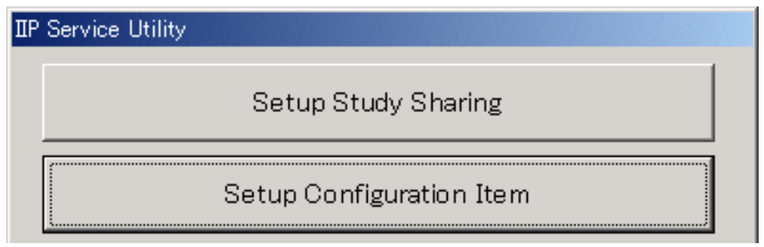
With the CL Service Utility, register the network information and equipment information (CONNECTING EQUIPMENT) about the CR-IR356/357/36X.

■ Registering the network information

1. **Start the Service Utility.**

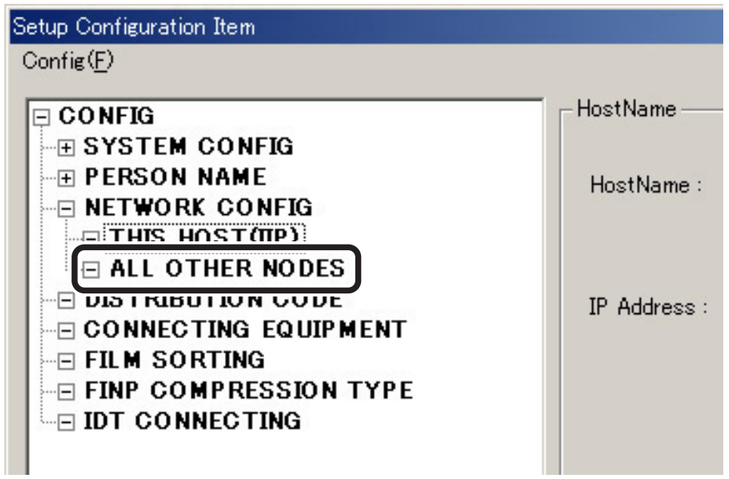
☞ See "1. Starting/Exiting the Service Utility" in "MU: Maintenance Utility".

2. **Click [Setup Configuration Item].**



00000404.EPS

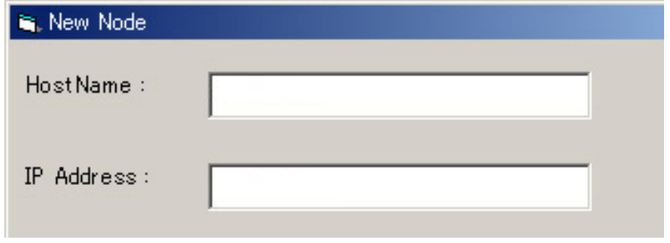
3. **Click [⊟ NETWORK CONFIG] and then [⊞ ALL OTHER NODES].**



IN000071.EPS

4. **Click [New].**

➔ The “New Node” window opens.



IN000042.EPS

5. **In the [HostName :] field, enter the host name of the CR-IR356/357/36X.**

In the [IP Address :] field, enter the IP address (172.16.1.11).

6. **Choose [FRUP] in the [Add Node] area and then click [OK].**

➔ The “FRUP Setup” window opens.

IN000082.EPS

7. **In the “Attribute” area, check as directed below (☐ ➔ ☑).**

- For CR-IR356/357/362/363/368 : [☑ CASSETTE]
- For CR-IR364/366/367 : [☑ BUILTIN]

8. **In the [ButtonCaption :] field, enter “RU11”.**

➥ ***REFERENCE***

The above entry need not always be the same as the host name.

9. **Click [OK].**

➔ Network information registration is completed.

10. **If you connect more than one unit, repeat steps 3. through 9.**

■ Registering the equipment information (CONNECTING EQUIPMENT)

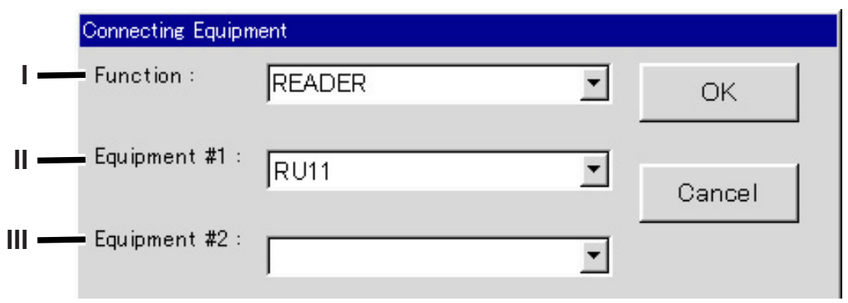
1. **In the “Setup Configuration Item” window, click ⊟ CONNECTING EQUIPMENT.**

IN000083.EPS

2. **Click** New **.**

➔ The “Connecting Equipment” window opens.

3. **Register the equipment information as directed below:**



IN000072.EPS

I. Choose “READER”.

II. Select the CR-IR356/357/36X’s host name (e.g., RU11).

III. If you connect two or more units of the CR-IR356/357/36X, select their host names from the “Equipment #2” and subsequent fields.

◆ NOTE ◆

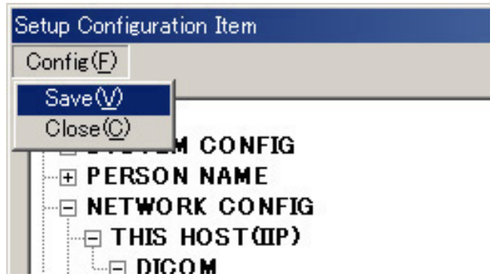
Do not register a 5000 plus series equipment for the “Connecting Equipment”.

4. **Click** OK **.**

➔ Equipment information registration is now completed.
The system returns you to the “Setup Configuration Item” window.

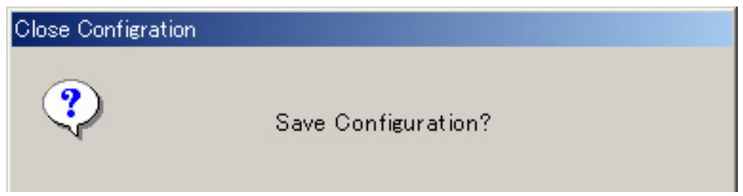
■ Saving the configuration information

1. **From the “Config (F)” menu in the “Setup Configuration Item” window, choose “Save”.**



IN000047.EPS

➔ A window opens, prompting you to confirm the setup data to be saved.



IN000048.EPS

2. **Click** Yes **.**

➔ The system saves the setup data.

4.8.3 IDT CONNECTION (patient information sharing function) Setup

356/357 36X

With the Service Utility, perform IDT CONNECTION setup.

◆ ***NOTE*** ◆

Be sure to perform IDT CONNECTION setup even if the system contains only one CL. If you do not perform IDT CONNECTION setup, an error (error code: 31418) occurs because the RU does not transfer images to the CL.

☞ **For the IDT CONNECTION setup procedure, see "3.13 Patient Information Sharing Function Setup" in "MU: Maintenance Utility".**

4.8.4 Selector Setup

364 366 367

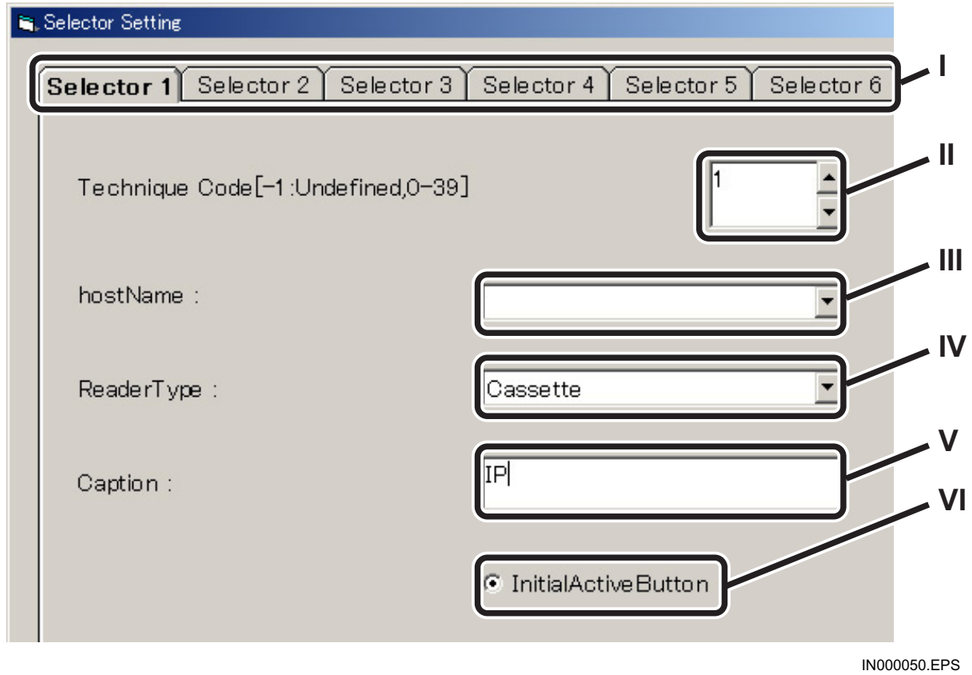
When connecting the CR-IR364/366/367 to the CL, register it with the selector. When connecting the CR-IR356/357/362/363/368, you do not have to perform a registration procedure because it has been factory registered prior to shipment.

1. **In the "Service Utility" window, click the "Selector Setting" button.**

IN000049.EPS

➔ The "Selector Setting" window opens.

2. Perform selector setup as directed below:



IN000050.EPS

I. Choose a “Selector” tab for which no equipment is registered. For the “Selector 1” tab, cassette-type equipment is registered by default.

II. Set a Technique Code that is not the same as for the other selectors.

III. Set the equipment to be added to the currently chosen selector (by selecting a host name).

IV. Choose “Velocity”.

V. Enter the character string (consisting of up to five single-byte characters) to be displayed on the selector button.

VI. To ensure that the currently edited selector is initially selected upon CL startup, turn ON the radio button.

3. If the CL does not process cassettes of cassette-type equipment, such as XG-1 RU, CR-IR356/357/362/363/368, or 5000 plus (if you do not intend to perform the IP registration procedure), complete the following steps:

1. Choose the “Selector 1” tab.
2. Change the Technique Code to “-1”.

4. Click OK **.**

➔ The system returns you to the Service Utility window.

5. If you connect another unit of the CR-IR364/366/367, repeat steps 2. through 4.

6. Click the “Exit Service Utility” button.

➔ The Service Utility exists, returning you to the desktop screen.

4.8.5 Settings Necessary for Connection of Two or More CLs

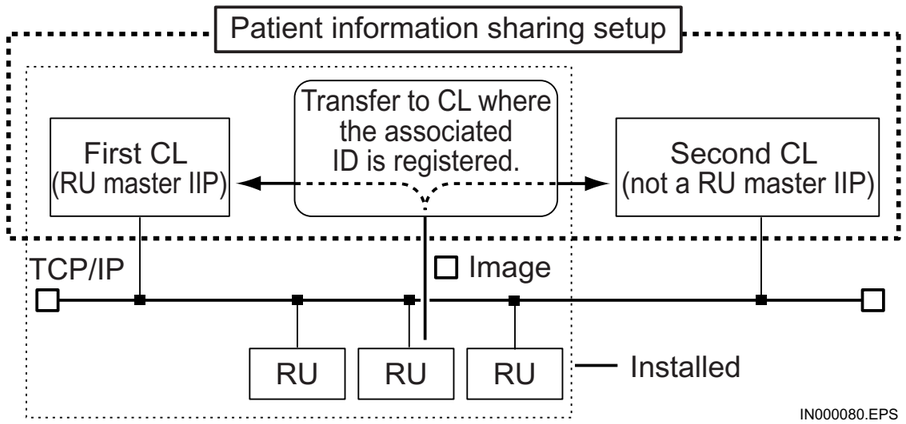
356/357 36X

Perform patient information sharing setup for the second and subsequent CLs.

☞ **For details on the patient information sharing setup procedure, see "3.13 Patient Information Sharing Function Setup" in "MU: Maintenance Utility".**

◆ *NOTES* ◆

- *Perform patient information sharing setup for the CL serving as the RU master IIP (first CL) and the CLs not serving as the RU master IIP (second and subsequent CLs). If setup is not completed for both types of CLs, images cannot be transferred from the RUs.*
- *In situations where two or more CLs are connected, the second and subsequent CLs are entitled to receive images from the RUs simply when you complete patient information sharing setup for them.*



- *Even when two or more of the installed CLs serve as RU master IIPs, be sure that patient information sharing setup is completed with respect to each other. The reason is that a certain such CL may receive images from RUs that it does not manage.*

4.8.6 CR-IR356/357/36X Setup

356/357 36X

■ Network setup for CR-IR356/357/36X main unit

From the CR-IR356/357/36X operation panel, set the following items of information:

- RU IP Address : CR-IR356/357/36X main unit IP address.
- FTP-Serv. IP Address : FTP server IP address. The CL's IP address should basically be set.
- Netmask Address : Netmask.
- Gateway IP Address : Gateway's IP address. To be set as needed.

☞ **For the setup procedure, see "IN: Installation" of the CR-IR356/357/36X Service Manuals, as required.**

■ Installing the RU PC-TOOL

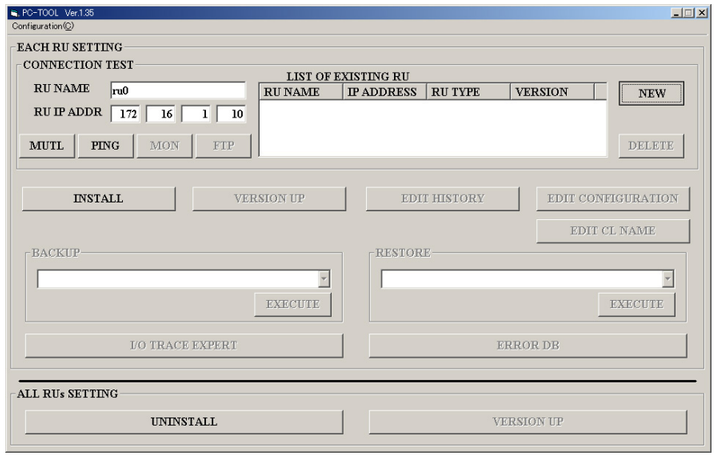
Install the CR-IR356/357/36X's RU PC-TOOL on the CL PC.

☞ **For the installation procedure, see "IN: Installation" of the CR-IR356/357/36X Service Manuals, as required.**

➥ *REFERENCE*

The RU PC-TOOL (shown below) is the utility software for CR-IR356/357/36X maintenance. Use this software after installing it on the CL PC.

RU-PC TOOL main menu



IN000123.EPS

■ Setting up the RU PC-TOOL

With the RU PC-TOOL, perform the application installation and configuration setup procedures for the CR-IR356/357/36X.

☞ **For the installation and configuration setup procedures, see "IN: Installation" of the CR-IR356/357/36X Service Manuals, as required.**

4.8.7 Connection Verification and Setup File Backup

356/357 36X

- Connection verification
  - Connection between the CL and CR-IR356/357/36X
  - Output image (by causing the printer to generate a film output)

☞ **See "IN: Installation" of the CR-IR356/357/36X Service Manuals, as required.**

  - Verify the connection to other equipment.

☞ **See "OE: Connecting the CL to Other Equipment".**

- Setup file backup
  - Back up the CL setup file.

☞ **See "7.1 Backing Up the CL Setup File" under "7. Setup File Backup and RU Error Log Verification/Deletion" in "IN-A: Installation — One RU Connection".**

4.8.8 Wake-on-LAN Setup

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To let the Image Reader (CR-IR356/357/364/366/367 only) automatically start upon CL startup, perform the Wake-on-LAN setup procedure.

☞ **See "FR8: Wake-on-LAN Setup".**